

Environmental Monitoring Report

Semiannual Report (August to December 2020)
March 2021

India: Delhi-Meerut Regional Rapid Transit System Investment Project - Tranche 1

Prepared by the National Capital Region Transport Corporation (NCRTC), Government of India for the Asian Development Bank.

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A. Introduction

1. National Capital Region Transport Corporation (NCRTC)- a Joint Sector company of Government of India (GOI) and States of Delhi, Haryana, Rajasthan and Uttar Pradesh is developing a rail based suburban transport system i.e., Regional Rapid Transit System (RRTS) for National Capital Region (NCR). The objective of RRTS is to provide continuous availability of affordable, reliable, safe, secure, and seamless transport system in the urban agglomeration of NCR so as to reduce the congestion and pollution, to reduce the travel time, energy consumption, accidents as well as to control urban development and land use for sustainability and regional development.

2. The proposed RRTS is based on the recommendation of 'Integrated Transport Plan for NCR' with perspective year 2032 which emphasizes the need for development of settlements outside the National Capital Territory (NCT) of Delhi, providing inter-connection between Delhi and settlements and relieving pressure on the existing transport routes converging at NCT-Delhi. A total of 8 RRTS corridors have been proposed, out of which three RRTS corridors namely Delhi-Ghaziabad-Meerut, Delhi-Sonapat-Panipat and Delhi-Gurugram-Rewari-Alwar, have been prioritized and taken up for implementation in the first phase.

3. Delhi-Ghaziabad-Meerut RRTS corridor is identified as one of the prioritized corridor to be taken up in first phase of RRTS project. This 82.15 kilometers (km) long RRTS corridor originates from Sarai Kale Khan RRTS station (common for three prioritized corridors) and terminates at Modipuram in Meerut. En-route it passes through the towns of Ghaziabad, Muradnagar and Modinagar. Out of 82.15 km length, 68 km is elevated and 14.15 km is underground. Majority of the elevated RRTS alignment is on the median of Ghaziabad-Meerut highway (erstwhile NH-58). Two maintenance depots, one at Duhai and another at Modipuram have been provided.

4. Delhi-Ghaziabad-Meerut RRTS corridor, is being co-financed by Asian Development Bank (ADB), Asia Infrastructure Investment Bank (AIIB) and New Development Bank (NDB). The environment impact assessment study for the project as per the ADB's policy for environment safeguards, was carried out by NCRTC in 2018-2019 and approved by ADB in April 2020. The approved report is uploaded on ADB website. This report complies with the applicable State Government, GOI legal framework and ADB Safeguard Policy Statement (2019). This report contains an Environment Management Plan (EMP) for mitigating any adverse impacts during various phases of implementation of the project. As per ADB's safeguards policy, the Delhi-Ghaziabad-Meerut RRTS Project is categorized as Category 'A' project.

B. Project Status

5. This RRTS corridor project was sanctioned by the GOI in March 2019 at total completion cost of Rs30,274 Crores and completion period of 6 years. The construction work in the project commenced in June 2019. For the project implementation, four numbers of Project Management Offices (PMO) each headed by a Chief Project Manager, have been set up at Delhi, Ghaziabad, Modinagar and Meerut. The construction of elevated viaduct /stations in the priority section from Sahibabad to Duhai was taken up in June 2019 and thereafter the same in the section from Duhai to Shatabdinagar has been taken up from June 2020 onwards. All the major civil construction and systems contract have been awarded and works in many of them have already been commenced. The manufacture of rolling stock is also in progress. The priority section from Sahibabad to Duhai is planned to be commissioned in June 2023. A consortium of M/s Ayesa, Spain M/s Ayesa, India and M/s Italfer, Italy has been engaged as General Consultants (GC) for the project. The social monitoring expert and environment monitoring experts from GC are already deployed on the project. These experts carry out

periodic inspection of the works to monitor the implementation of environment management plan.

C. Purpose of the Environment Monitoring Report

6. The objective of environmental monitoring is to allow ADB and NCRTC to gather information to: i) evaluate the environmental management plan (EMP) progress by establishing compliance status; ii) detect and correct non-conformances; iii) identify unanticipated impacts and implement necessary mitigation measures; and iv) provide evidence to support enforcement of penalty provisions of the civil works contract to deter non-compliance.

D. Status of clearances /approvals from various authorities

7. Table 4 of the approved environmental impact assessments (EIA) report describes the status of clearances/approvals from various authorities at the time of finalisation of the report in April 2020. The status of the clearances/approvals which were not obtained at the time of finalisation of above report is as under:

Table 1: Applicable Permits and Clearances Required for the Project and Status

S. No.	Permissions/ Clearances	Acts/Rules/Notifications/ Guidelines	Concerned Agency	Status ending Dec 2020
A. Pre-construction Stage				
1.	Forest Clearance	Forest Conservation Act, 1980.	State Forest Department	Obtained except for RRTS alignment in Delhi.
2.	Permission for felling of trees	Forest Conservation Act, 1980. Delhi Preservation of Trees Act, 1994. The U. P. Protection of Trees Act, 1976.	District Forest Office/State Forest Department for trees felling in forest areas and District Authorities in non- forests Areas	Obtained except for RRTS alignment in Delhi. In March 2021, permission for felling of 1943 trees in Delhi granted. Permission for 687 trees in Delhi is under process
B. Implementation Stage				
1.	Consent to Establish & Operate for Ready Mix Concrete plant & casting yard, setting of labor camps	Air (Prevention and Control of Pollution) Act 1981	DPCC for NCT of Delhi and U.P. State Pollution Control Board for Ghaziabad and Meerut.	Status for each contract package given in subsequent paragraphs
2.	Permission for withdrawal / dewatering of groundwater	Environment (Protection) Act, 1986	CGWA	
3.	Permission for sand mining from river bed	Environment (Protection) Act, 1986	Mining Department/ MoEFCC	Contractors are procuring sand from existing sources

S. No.	Permissions/Clearances	Acts/Rules/Notifications/Guidelines	Concerned Agency	Status ending Dec 2020
4.	Authorization for Disposal of Hazardous Waste	Hazardous Waste (Management and Handling) Rules 1989	DPCC for NCT of Delhi and U.P. State Pollution Control Board for Ghaziabad and Meerut.	Status for each contract package given in subsequent paragraphs
5.	Disposal of bituminous and other wastes	Hazardous Waste (Management and Handling) Rules 1989	DPCC for NCT of Delhi and U.P. State Pollution Control Board for Ghaziabad and Meerut.	
6.	Consent for disposal of sewage from labour camps.	Water (Prevention and Control of Pollution) Act 1974	DPCC for NCT of Delhi and U.P. State Pollution Control Board for Ghaziabad and Meerut.	
7.	Pollution Under Control Certificate for various vehicles use for project	Central Motor and Vehicle Act, 1988	Department of Transport, State govt. authorised testing centres	
8.	Employing Labour/workers	The Building and Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996	District Labour Commissioner	Obtained for all the contracts in progress
9.	Roof Top Rain Water Harvesting (RWH)	Central Groundwater Authority (CGWA) Guidelines	Central Ground Water Authority	In progress
10.	Permission for use of fresh water for construction and drinking purpose.	Environment (Protection) Act, 1986	MCD/ NDMC/DDA in case of NCT of Delhi, GDA/ Ghaziabad Nagar Nigam for Ghaziabad and Municipal Corporation/Meerut Nagar Nigam for Meerut.	Obtained
11.	Quarry Operation	The Mines and Minerals (Development and Regulation) Act, 1957	State Department of Mines and Geology	Contractors are sourcing materials from existing quarries

8. As per GOI EIA Notification 2006, all railways projects in India are exempted from requirements of preparing EIA, therefore environmental clearance for RRTS Project is not required.

9. Consent to Establish and Consent to operate obtained from respective State Pollution Control Board for Ready Mix Concrete Plant/Batching Plant to comply with Water Act, 1974 and Air Act, 1981 has been taken in some of the contract packages and for some

of the packages it has been applied and final approval is awaited. Status of CTE & CTO for various civil construction contract packages ending December 2020 is as under:

Table 2: Status of Consent to Establish & Consent to Operate

Package No.	Contract Detail	Contractor	Status of Consent to Establish (CTE) & Consent to Operate (CTO) for Ready Mix Concrete Plant/Batching Plant
P01	Construction of elevated viaduct including 2 stations from Sahibabad to Ghaziabad	M/s KEC-CCECC JV	CTE of ready-mix concrete plant/batching plant obtained. (Attachment-1) CTO of ready-mix concrete plant/batching plant obtained
P02	Construction of elevated viaduct including 2 stations from Ghaziabad to Duhai	M/s APCO-CRFG JV	CTE of ready-mix concrete plant/batching plant obtained. (Attachment-2) CTO of ready-mix concrete plant/batching plant obtained (Attachment-3)
P03 (Lot 1)	Construction of elevated viaduct including 2 stations from Duhai to start of Modi Nagar North	M/s Larsen & Toubro Limited	CTE of ready-mix concrete plant/batching plant obtained. (Attachment-4) CTO applied & approval awaited
P03 (Lot 2)	Construction of elevated viaduct including 5 stations from Modi Nagar North to Shatabadi Nagar	M/s Larsen & Toubro Limited	CTE of ready-mix concrete plant/batching plant obtained. (Attachment-5) CTO of ready-mix concrete plant/batching plant obtained (Attachment-6)
P04	Design and construction of tunnels by TBM from New Ashok Nagar Ramp to Sahibabad Ramp and one underground station	M/s SHANGHAI Tunnel Engineering Co. Limited	Land development activity in progress Construction work not commenced
P05A	Construction of Duhai Depot and 1 at-grade station	M/s VNC-KEC (JV)	CTE applied & approval awaited.
P06	Construction of elevated viaduct including 2 stations from Sarai Kale Khan to New Ashok Nagar	M/s AFCONS Infrastructure Limited	CTE applied & approval awaited.
P07	Construction of elevated viaduct from Shatabdi Nagar Station to Brahmpuri Down Ramp & Begumpul Up Ramp to Modipuram including 5 elevated stations	M/s Larsen & Toubro Limited	CTE applied & approval awaited.

Package No.	Contract Detail	Contractor	Status of Consent to Establish (CTE) & Consent to Operate (CTO) for Ready Mix Concrete Plant/Batching Plant
P08	Design and construction of tunnels by TBM from Brahmpuri DN Ramp to Begumpul UP ramp and 3 Underground stations at Meerut Central, Bhaisali & Begumpul including finishes, E&M	M/s AFCONS Infrastructure Limited	CTE applied & approval awaited. Construction work not commenced

Table 3: Status of Authorization for Disposal of Hazardous Waste & Bio Medical Waste

Package No.	Contract Detail	Contractor	Authorization for Disposal of Hazardous Waste	Disposal of Bio Medical Waste
P01	Construction of elevated viaduct including 2 stations from Sahibabad to Ghaziabad	M/s KEC-CCECC JV	Disposed by recycler approved by Pollution Control Board-M/S IFP Petro Product Pvt Ltd. (Annexure-1)	Tie up with Vasundhara Hospital, Ghaziabad (Annexure-2)
P02	Construction of elevated viaduct including 2 stations from Ghaziabad to Duhai	M/s APCO-CRFG JV	Disposed by recycler approved by Pollution Control Board-Bharti Oil & Waste Management Pvt Ltd. (Annexure-3)	Though Vinayak Hospital Ghaziabad. (Annexure-4)
P03 (Lot 1)	Construction of elevated viaduct including 2 stations from Duhai to start of Modi Nagar North	M/s Larsen & Toubro Limited	Disposed by recycler approved by Pollution Control Board-Shruti Petrochem Industries (Annexure-5)	Though Vinayak Hospital Ghaziabad.
P03 (Lot 2)	Construction of elevated viaduct including 5 stations from Modi Nagar North to Shatabadi Nagar	M/s Larsen & Toubro Limited	Disposed by recycler approved by Pollution Control Board-Shruti Petrochem Industries (Annexure-5)	Through Synergy Waste Management (P) Ltd (Annexure-6)
P04	Design and construction of tunnels by TBM from New Ashok Nagar Ramp to Sahibabad Ramp and one underground station	M/s SHANGHAI Tunnel Engineering Co. Limited	In Process	In Process
P05A	Construction of Duhai Depot and 1 at-grade station	M/s VNC-KEC (JV)	In Process	In Process
P06	Construction of elevated viaduct including 2 stations from Sarai Kale Khan to New Ashok Nagar	M/s AFCONS Infrastructure Limited	In Process	In Process

Package No.	Contract Detail	Contractor	Authorization for Disposal of Hazardous Waste	Disposal of Bio Medical Waste
P07	Construction of elevated viaduct from Shatabdi Nagar Station to Brahmpuri Down Ramp & Begumpul Up Ramp to Modipuram including 5 elevated stations	M/s Larsen & Toubro Limited	In Process	In Process
P08	Design and construction of tunnels by TBM from Brahmpuri DN Ramp to Begumpul UP ramp and 3 Underground stations at Meerut Central, Bhaisali & Begumpul including finishes, E&M	M/s AFCONS Infrastructure Limited	In Process	In Process

10. Since this is a Category 'A' project, as per the ADB safeguards policy, an external monitor consultant is to be engaged for monitoring the implementation of Environment Management Plan. M/s Egis India Consulting Engineers Pvt Ltd, have been engaged as External Monitor Consultant for monitoring the implementation of EMP and the agency has already commenced its assignment.

E. Grievance Redressal Mechanism

11. As per the requirements of EIA report, Social Environment Management Unit (SEMU) led by the Head of Department (HOD NCRTC) and supported by officers dealing with environment, social and land acquisition activities and GC experts has been constituted at the PIU level (at Corporate office) . In each of the PMO's, Grievance Redressal Committees have been constituted.

F. Environmental Monitoring Activity

12. Environmental monitoring is being carried out by approved laboratories during construction activity. Representative sensitive receivers in the vicinity of the works are monitored for air, noise, ground water. Ambient air quality and noise levels monitoring is being conducted at station locations, depot, batching plant/ Casting yard. The results are compared with baseline data and CPCB guideline. Monitoring Photographs are attached as **Attachment-7**.

Table 4: Summary of Environmental Monitoring

Package No.	Contract Detail	Contractor	Ambient Air Quality	Ambient Noise Monitoring	Name of Approved Laboratory (NABL certificate number)	Remarks
P01	Construction of elevated viaducts including 2 stations from Sahibabad to Ghaziabad	M/s KEC-CCECC JV	Monitored between 16/10/2020 to 24/12/2020	Monitored between 16/10/2020 to 24/12/2020	Arihant Analytical Laboratory Pvt Ltd (TC-5826)	Sample Test Result Attached as (Attachment-8)
P02	Construction of elevated viaducts including 2 stations from Ghaziabad to Duhai	M/s APCO-CRFG JV	Monitored between 17/10/2020 to 29/12/2020	Monitored between 12/10/2020 to 29/12/2020	Enviro -Tech Services (TC-8771)	Sample Test Result Attached as (Attachment-9)
P03 (Lot 1)	Construction of elevated viaducts including 2 stations from Duhai Eastern Peripheral Expressway (EPE) to start of Modi Nagar North	M/s Larsen & Toubro Limited	Monitored between 03/10/2020 to 16/12/2020	Monitored between 03/10/2020 to 16/12/2020	Ecosteps Laboratory Pvt Ltd (TC-6518)	Sample Test Result Attached as (Attachment-10)
P03 (Lot 2)	Construction of elevated viaducts including 5 stations from Modi Nagar North Shatabadi Nagar	M/s Larsen & Toubro Limited	Monitored between 16/10/2020 to 27/12/2020	Monitored between 16/10/2020 to 26/12/2020	Arihant Analytical Laboratory (TC-5826)	Sample Test Result Attached as (Attachment-11)

1. Package No- P01

13. During the months of October-December 2020 , the environmental parameters like PM10, PM2.5, Sulphur dioxide (SO₂), Nitrogen dioxide (NO₂), Carbon Monoxide (CO) and Noise level measured by NABL accredited laboratory (M/s Arihant Analytical Laboratory Pvt Ltd). PM 10, PM 2.5 & NO₂ value are more than permissible limit provided by CPCB. Values have exceeded due to heavy traffic movement on existing road. Other environmental parameters like Sulphur dioxide (SO₂) & Carbon Monoxide (CO) were found within permissible limit. Noise level at day and night time found within the CPCB limit.

Table 5: Particulate Matters-PM10 Report- P01

Location	Monitoring Date	PM10 Value ($\mu\text{g}/\text{m}^3$)	Specification /Requirement (as per CPCB) ($\mu\text{g}/\text{m}^3$)	Baseline monitoring Date	Baseline monitoring values ($\mu\text{g}/\text{m}^3$)	Time weighted Average
Ghaziabad Station	16-Oct-2020	281.50	100	25-Dec-2019	281.50	24 hours
	30-Nov-2020	350.60	100	25-Dec-2019	281.50	
P43	16-Oct-2020	292.60	100	25-Nov-2019	316.60	
Casting Yard	23-Oct-2020	301.70	100	25-Nov-2019	224.90	
	03-Nov-2020	327.80	100	25-Nov-2019	224.90	
Sahibabad Station	28-Oct-2020	318.60	100	03-Dec-2019	282.50	
	03-Nov-2020	342.50	100	03-Dec-2019	282.50	
P 126	30-Nov-2020	342.40	100	25-Nov-2019	184.50	
P30	15-Dec-2020	211.50	100	24-Dec-2019	278.80	
P177	15-Dec-2020	242.40	100			
P148	24-Dec-2020	312.20	100			
P112	24-Dec-2020	285.70	100	03-Dec-2019	292.50	

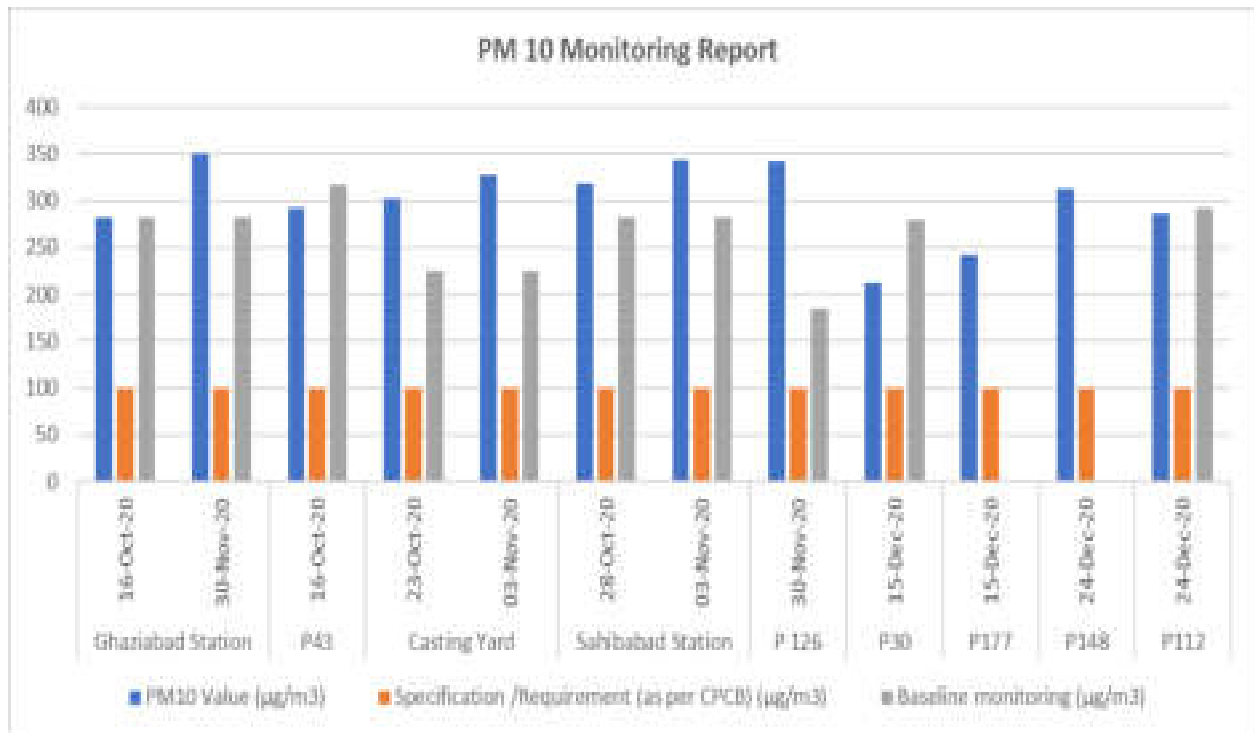


Table 6: Particulate Matters-PM2.5 Report-P01

Location	Monitoring Date	PM 2.5 Value ($\mu\text{g}/\text{m}^3$)	Specification /Requirement (as per CPCB) ($\mu\text{g}/\text{m}^3$)	Baseline monitoring Date	Baseline monitoring values ($\mu\text{g}/\text{m}^3$)	Time weighted Average
Ghaziabad Station	16-Oct-2020	256.70	60	25-Dec-2019	299.10	24 hours
	30-Nov-2020	374.50	60	25-Dec-2019	299.10	
P43	16-Oct-2020	287.30	60	25-Nov-2019	295.20	
Casting Yard	23-Oct-2020	326.50	60	25-Nov-2019	276.40	
	03-Nov-2020	351.50	60	25-Nov-2019	276.40	
Sahibabad Station	28-Oct-2020	342.70	60	03-Dec-2019	318.40	
	03-Nov-2020	365.20	60	03-Dec-2019	318.40	
P 126	30-Nov-2020	368.20	60	25-Nov-2019	197.40	
P30	15-Dec-2020	282.70	60	24-Dec-2019	296.40	
P177	15-Dec-2020	271.50	60			
P148	24-Dec-2020	278.50	60			
P112	24-Dec-2020	247.30	60	03-Dec-2019	292.50	

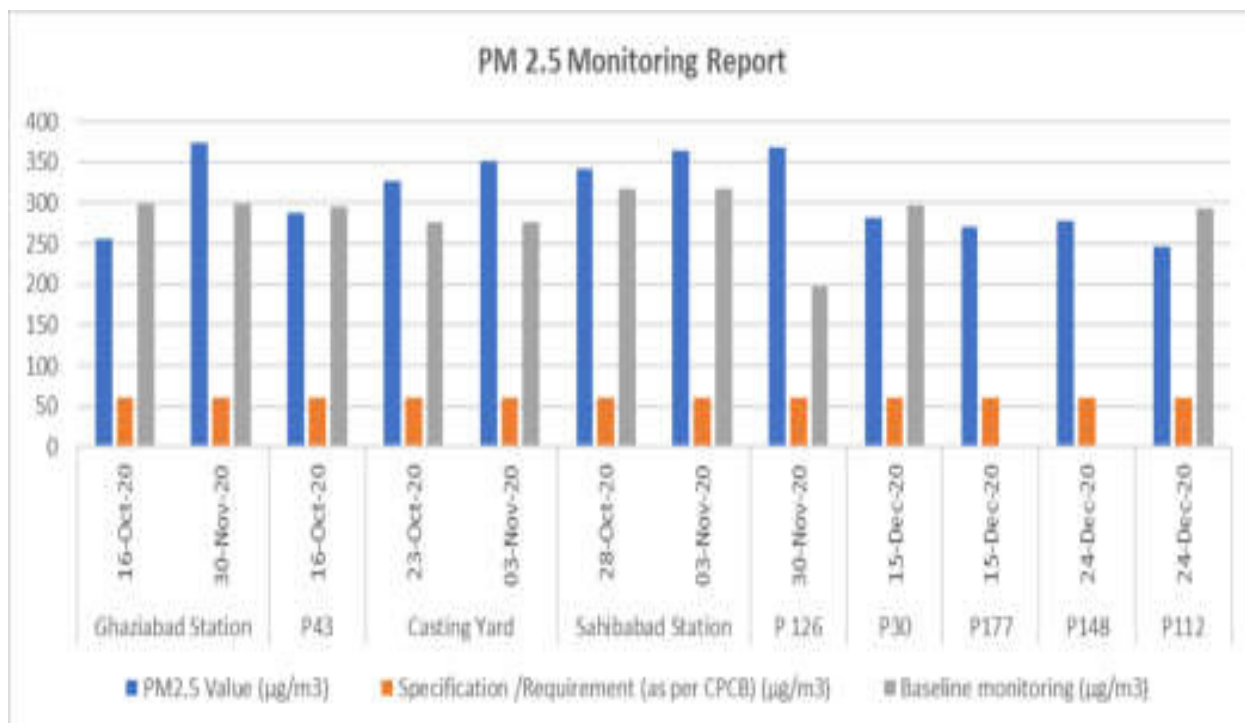


Table 7: Sulphur Dioxide-SO₂ Report-P01

Location	Monitoring Date	SO ₂ Value (µg/m ³)	Specification /Requirement (as per CPCB) (µg/m ³)	Baseline monitoring Date	Baseline monitoring values (µg/m ³)	Time weighted Average
Ghaziabad Station	16-Oct-2020	11.20	80	25-Dec-2019	11.30	24 hours
	30-Nov-2020	30.80	80	25-Dec-2019	11.30	
P43	16-Oct-2020	10.40	80	25-Nov-2019	16.30	
Casting Yard	23-Oct-2020	13.30	80	25-Nov-2019	14.70	
	03-Nov-2020	30.30	80	25-Nov-2019	14.70	
Sahibabad Station	28-Oct-2020	12.40	80	03-Dec-2019	8.50	
	03-Nov-2020	28.60	80	03-Dec-2019	8.50	
P 126	30-Nov-2020	31.60	80	25-Nov-2019	10.60	
P148 (Hindon)	30-Nov-2020	14.50	80			
P112	30-Nov-2020	10.80	80	03-Dec-2019	10.50	
P30	15-Dec-2020	16.30	80	24-Dec-2019	10.90	
P177	15-Dec-2020	18.50	80			

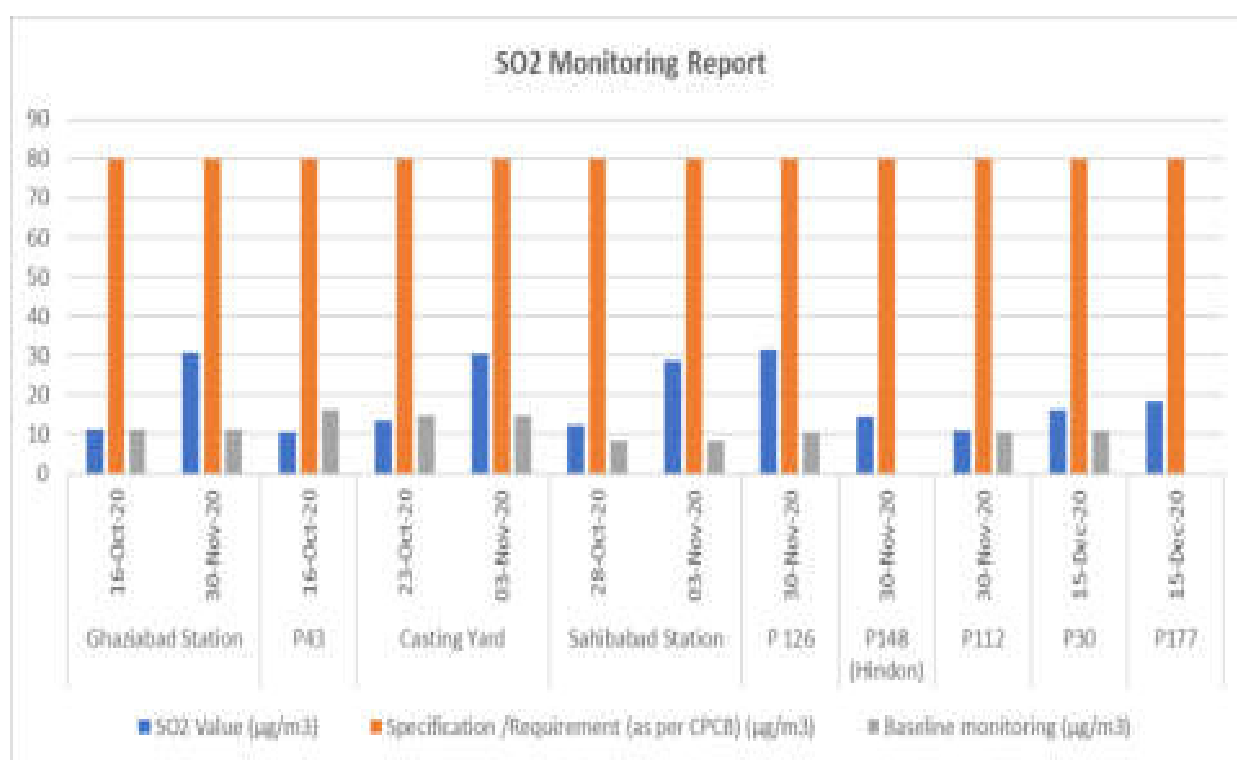


Table 8: Nitrogen Dioxide-NO₂ Report-P01

Location	Monitoring Date	NO ₂ Value (µg/m ³)	Specification /Requirement (as per CPCB) (µg/m ³)	Baseline monitoring Date	Baseline monitoring values (µg/m ³)	Time weighted Average
Ghaziabad Station	16-Oct-2020	117.8	80	25-Dec-2019	79.60	24 hours
	30-Nov-2020	198.4	80	25-Dec-2019	79.60	
P43	16-Oct-2020	121.6	80	25-Nov-2019	91.40	
Casting Yard	23-Oct-2020	162.5	80	25-Nov-2019	82.40	
	03-Nov-2020	187.7	80	25-Nov-2019	82.40	
Sahibabad Station	28-Oct-2020	179.6	80	03-Dec-2019	86.20	
	03-Nov-2020	197.7	80	03-Dec-2019	86.20	
P 126	30-Nov-2020	192.6	80	25-Nov-2019	56.80	
P30	15-Dec-2020	52.20	80	24-Dec-2019	80.40	
P177	15-Dec-2020	48.40	80			
P148 (Hindon)	24-Dec-2020	61.60	80			
P112	24-Dec-2020	51.70	80	03-Dec-2019	71.40	

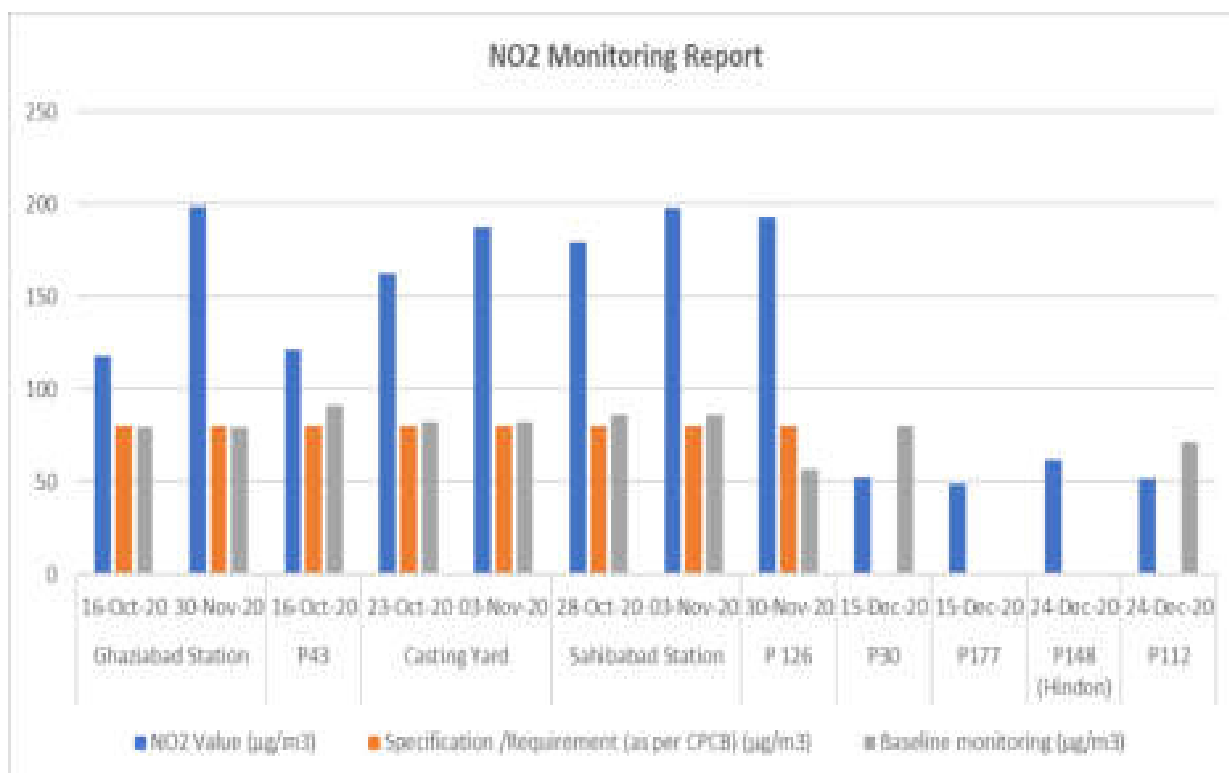


Table 9: Carbon Monoxide-CO Report-P01

Location	Monitoring Date	CO Value (mg/m ³)	Specification /Requirement (as per CPCB) (mg/m ³)	Baseline monitoring Date	Baseline monitoring values (mg/m ³)	Time weighted Average
Ghaziabad Station	16-Oct-2020	1.50	2	25-Dec-2019	1.40	8 hours
	30-Nov-2020	1.50	2	25-Dec-2019	1.40	
P43	16-Oct-2020	1.00	2	25-Nov-2019	1.80	
Casting Yard	23-Oct-2020	1.00	2	25-Nov-2019	1.00	
	03-Nov-2020	1.60	2	25-Nov-2019	1.00	
Sahibabad Station	28-Oct-2020	1.50	2	03-Dec-2019	1.20	
	03-Nov-2020	1.70	2	03-Dec-2019	1.20	
P 126	30-Nov-2020	1.30	2	25-Nov-2019	0.50	
P30	15-Dec-2020	1.00	2	24-Dec-2019	1.40	
P177	15-Dec-2020	1.50	2			
P148 (Hindon)	24-Dec-2020	1.30	2			
P112	24-Dec-2020	1.50	2	03-Dec-2019	1.50	

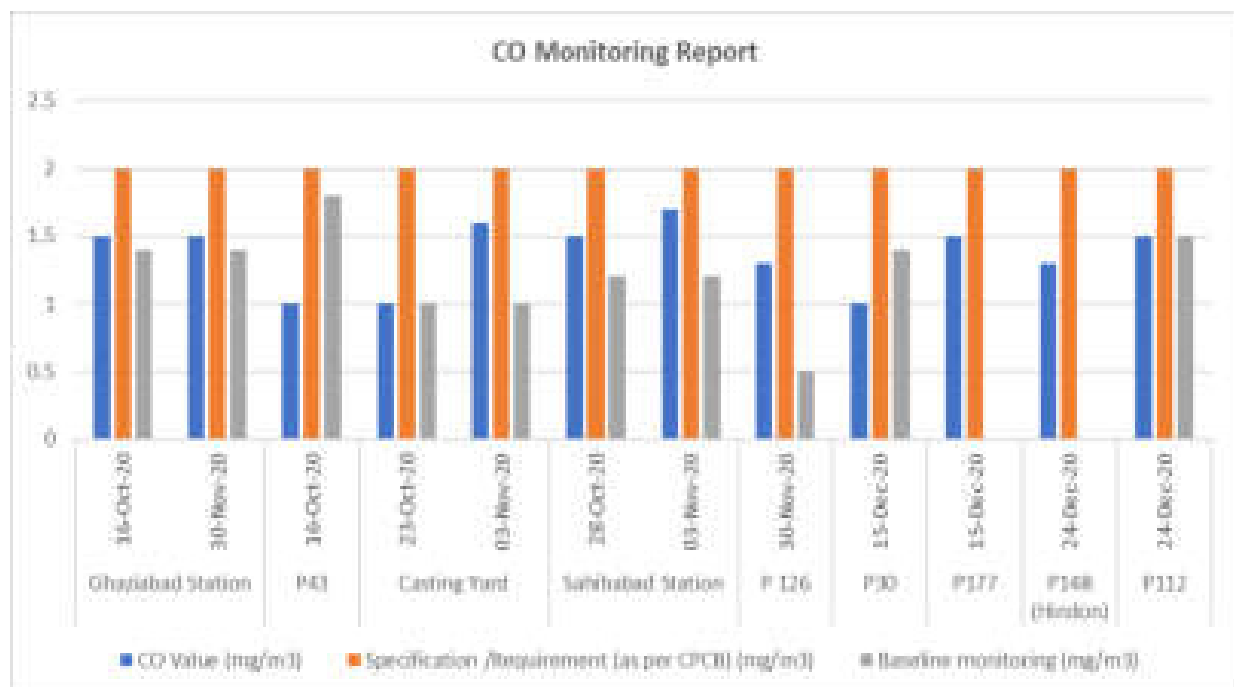
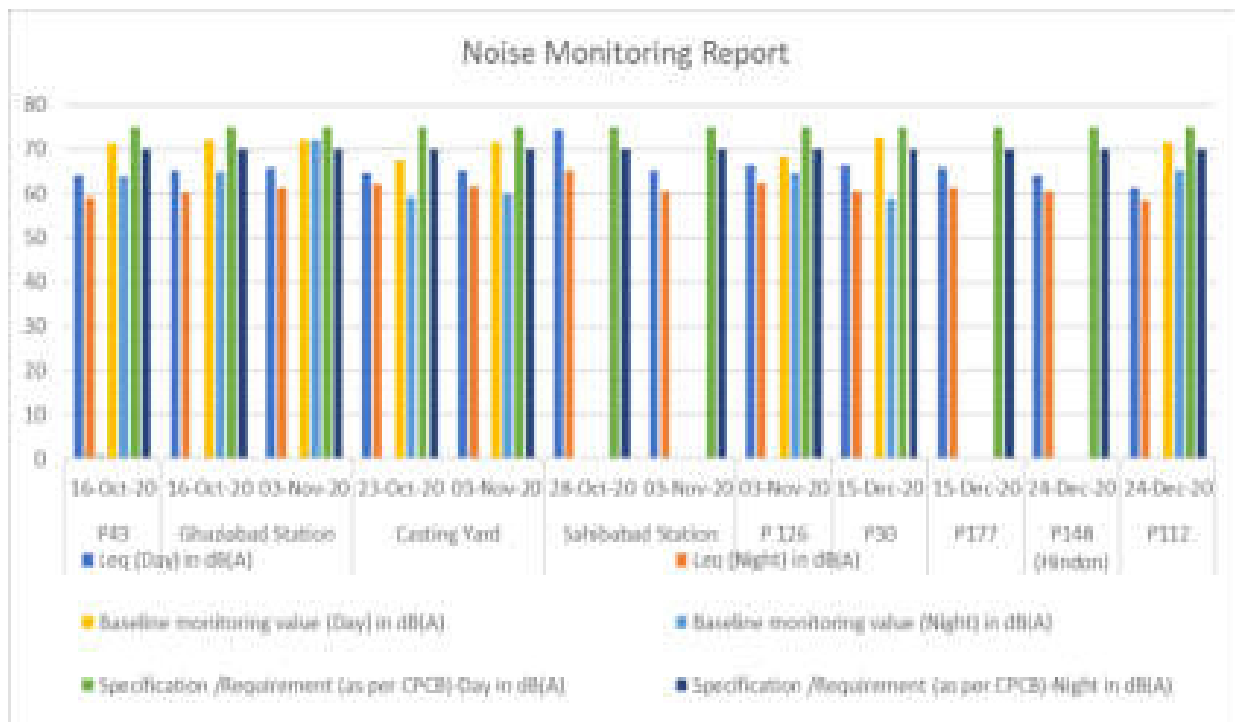


Table 10: Noise Monitoring Report-P01

Location	Monitoring Date	Leq (Day) in dB(A)	Leq (Night) in dB(A)	Baseline monitoring Date	Baseline monitoring values (Day) in dB(A)	Baseline monitoring values (Night) in dB(A)	Specification /Requirement (as per CPCB)-Day in dB(A)	Specification /Requirement (as per CPCB)-Night in dB(A)
P43	16-Oct-2020	64.10	59.20	25-Nov-2019	71.20	63.70	75	70
Ghaziabad Station	16-Oct-2020	65.20	60.30	25-Dec-2019	72.20	64.90	75	70
	03-Nov-2020	65.80	61.30	25-Dec-2019	72.20	72.20	75	70
Casting Yard	23-Oct-2020	64.60	62.20	25-Nov-2019	67.50	59.10	75	70
	03-Nov-2020	65.30	61.70	25-Nov-2019	71.60	59.80	75	70
Sahibabad Station	28-Oct-2020	74.40	65.30	03-Dec-2019	69.60	62.50	75	70
	03-Nov-2020	65.20	60.60	03-Dec-2019	69.60	62.50	75	70
P 126	03-Nov-2020	66.20	62.50	25-Nov-2019	68.30	64.50	75	70
P30	15-Dec-2020	66.20	60.40	24-Dec-2019	72.80	58.80	75	70
P177	15-Dec-2020	65.70	61.20				75	70
P148 (Hindon)	24-Dec-2020	64.10	60.50				75	70
P112	24-Dec-2020	61.30	58.40	03-Dec-2019	71.70	65.30	75	70



2. Package No- P02

14. During the month of October-December 2020 the environmental parameters like PM₁₀, PM_{2.5}, Sulphur dioxide (SO₂), Nitrogen dioxide (NO₂), Carbon Monoxide (CO) and Noise level measured by NABL accredited laboratory (M/S Enviro -Tech Services). PM₁₀ & PM_{2.5} value are more than permissible limit provided by CPCB. Values are exceeded due to heavy traffic movement. Other environmental parameters like Sulphur dioxide (SO₂), are within the limit; but on some day values of Nitrogen dioxide (NO₂) & Carbon Monoxide (CO) were exceeding the permissible limit. Noise level at day and night time found within the CPCB limit.

Table 11: Particulate Matters-PM10 Report-P02

Location	Monitoring Date	PM10 Value ($\mu\text{g}/\text{m}^3$)	Specification /Requirement (as per CPCB) ($\mu\text{g}/\text{m}^3$)	Baseline monitoring Date	Baseline monitoring values ($\mu\text{g}/\text{m}^3$)	Time weighted Average
Viaduct, P-383	17-Oct-2020	177.50	100	04-July-2019	160	24 hours
	23-Oct-2020	197.50	100	04-July-2019	160	
	12-Nov-2020	198.60	100	04-July-2019	160	
	26-Nov-2020	165.20	100	04-July-2019	160	
Casting Yard Vasundhara	17-Oct-2020	171.90	100	03-July-2019	220	
	23-Oct-2020	170.10	100	03-July-2019	220	
	12-Nov-2020	205.50	100	03-July-2019	220	
	26-Nov-2020	171.10	100	03-July-2019	220	
	14-Dec-2020	189.10	100	03-July-2019	220	
	28-Dec-2020	173.50	100	03-July-2019	220	
Casting Yard Duhai	12-Nov-2020	190.10	100			
	27-Nov-2020	181.90	100	12-Nov-2020	190.10	
	14-Dec-2020	184.40	100	12-Nov-2020	190.10	
	28-Dec-2020	171.70	100	12-Nov-2020	190.10	
Guldhar Station	12-Nov-2020	195.70	100	29-Sep-2020	202.2	
	27-Nov-2020	178.70	100	29-Sep-2020	202.2	
	15-Dec-2020	201.70	100	29-Sep-2020	202.2	
	29-Dec-2020	161.50	100	29-Sep-2020	202.2	
Duhai Station	15-Dec-2020	206.30	100	30-Dec-2019	325	
	29-Dec-2020	164.70	100	30-Dec-2019	325	

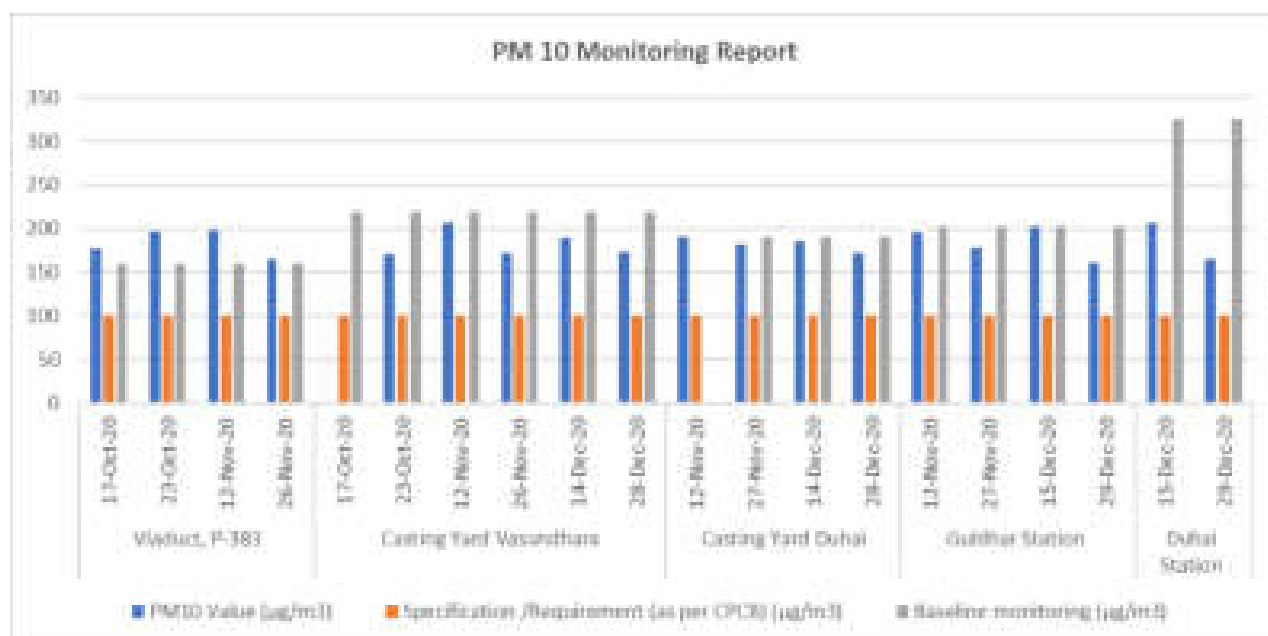


Table 12: Particulate Matters-PM2.5 Report-P02

Location	Monitoring Date	PM 2.5 Value ($\mu\text{g}/\text{m}^3$)	Specification /Requirement (as per CPCB) ($\mu\text{g}/\text{m}^3$)	Baseline monitoring Date	Baseline monitoring values ($\mu\text{g}/\text{m}^3$)	Time weighte d Average
Viaduct, P-383	17-Oct-2020	86.30	60	04-July-2019	79	24 hours
	23-Oct-2020	83.90	60	04-July-2019	79	
	12-Nov-2020	91.80	60	04-July-2019	79	
	26-Nov-2020	81.90	60	04-July-2019	79	
Casting Yard Vasundhara	17-Oct-2020	82.30	60	03-July-2019	185	
	23-Oct-2020	88.70	60	03-July-2019	185	
	12-Nov-2020	96.70	60	03-July-2019	185	
	26-Nov-2020	85.90	60	03-July-2019	185	
	14-Dec-2020	82.40	60	03-July-2019	185	
	28-Dec-2020	57.90	60	03-July-2019	185	
Casting Yard Duhai	12-Nov-2020	84.30	60			
	27-Nov-2020	72.60	60	12-Nov-2020	84.30	
	14-Dec-2020	78.20	60	12-Nov-2020	84.30	
	28-Dec-2020	54.50	60	12-Nov-2020	84.30	
Guldhar Station	12-Nov-2020	87.40	60	29-Sep-2020	75.30	
	27-Nov-2020	78.50	60	29-Sep-2020	75.30	
	15-Dec-2020	91.50	60	29-Sep-2020	75.30	
	29-Dec-2020	62.30	60	29-Sep-2020	75.30	
Duhai Station	15-Dec-2020	94.80	60	30-Dec-2019	215	
	29-Dec-2020	61.80	60	30-Dec-2019	215	

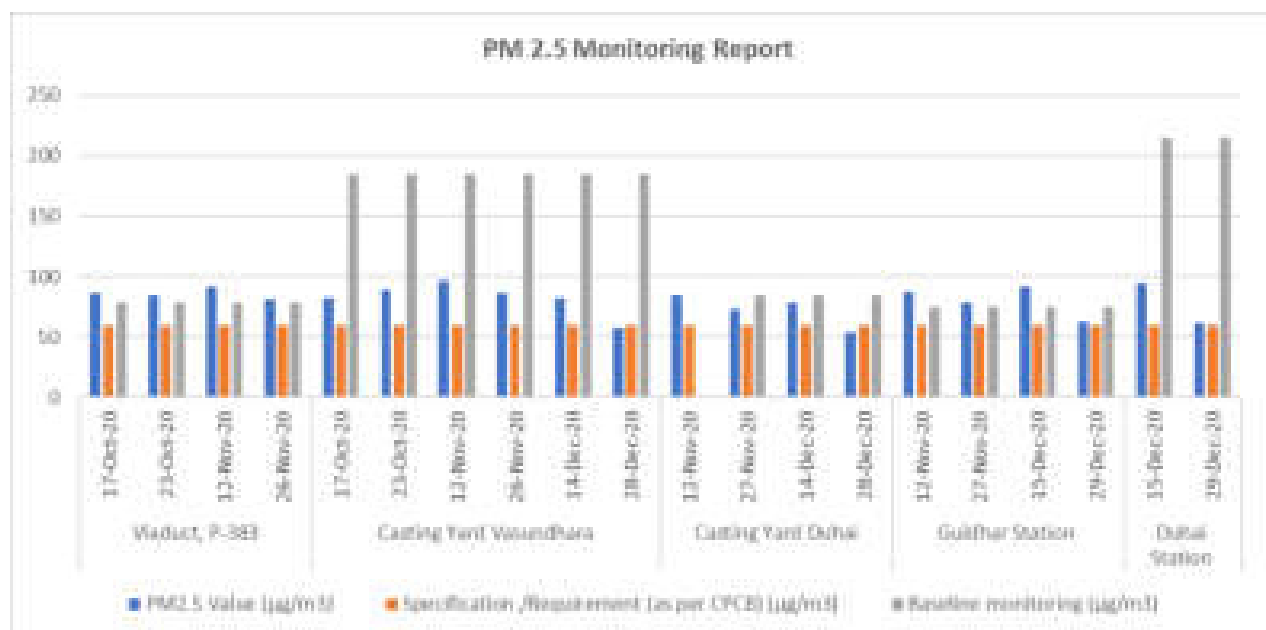


Table 13: Sulphur Dioxide-SO₂ Report-P02

Location	Monitoring Date	SO ₂ Value (µg/m ³)	Specification /Requirement (as per CPCB) (µg/m ³)	Baseline monitoring Date	Baseline monitoring values (µg/m ³)	Time weighted Average
Viaduct, P-383	17-Oct-2020	15.90	80	04-July-2019	31	24 hours
	23-Oct-2020	17.20	80	04-July-2019	31	
	12-Nov-2020	19.50	80	04-July-2019	31	
	26-Nov-2020	24.30	80	04-July-2019	31	
Casting Yard Vasundhara	17-Oct-2020	17.50	80	03-July-2019	23	
	23-Oct-2020	19.50	80	03-July-2019	23	
	12-Nov-2020	21.00	80	03-July-2019	23	
	26-Nov-2020	26.70	80	03-July-2019	23	
	14-Dec-2020	11.20	80	03-July-2019	23	
	28-Dec-2020	18.20	80	03-July-2019	23	
Casting Yard Duhai	12-Nov-2020	15.90	80			
	27-Nov-2020	23.40	80	12-Nov-2020	15.90	
	14-Dec-2020	12.70	80	12-Nov-2020	15.90	
	28-Dec-2020	16.90	80	12-Nov-2020	15.90	
Guldhar Station	12-Nov-2020	17.90	80	29-Sep-2020	9.20	
	27-Nov-2020	21.30	80	29-Sep-2020	9.20	
	15-Dec-2020	15.20	80	29-Sep-2020	9.20	
	29-Dec-2020	13.90	80	29-Sep-2020	9.20	
Duhai Station	15-Dec-2020	17.30	80	30-Dec-2019	11	
	29-Dec-2020	14.10	80	30-Dec-2019	11	

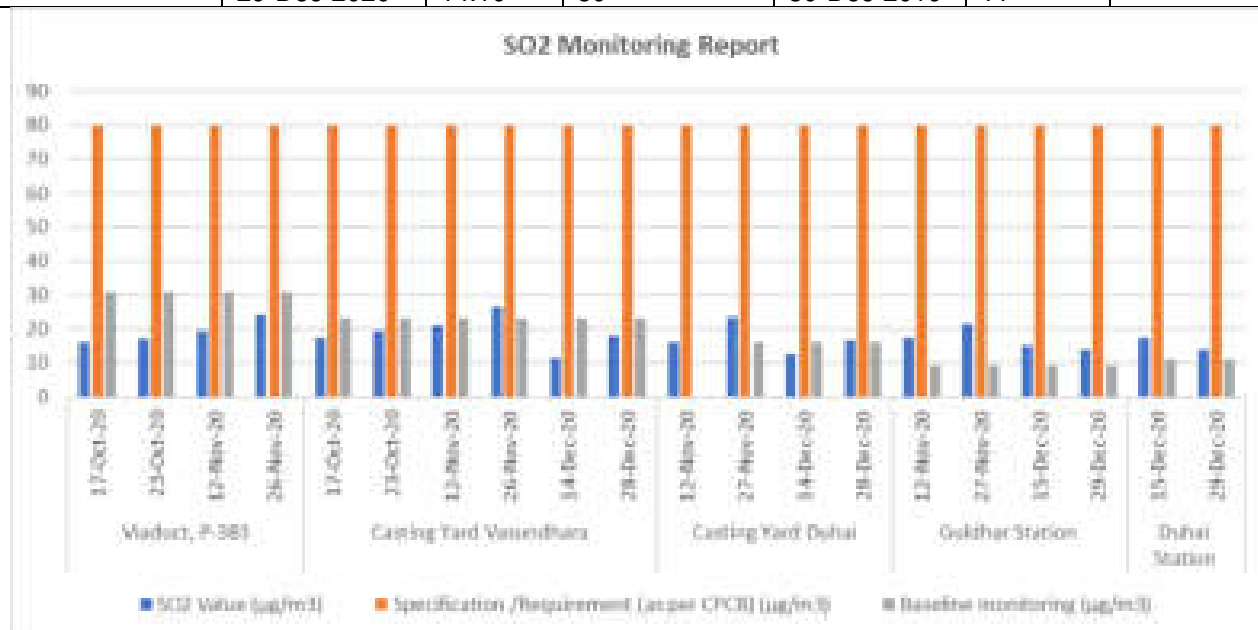


Table 14: Nitrogen Dioxide-NO2 Report-P02

Location	Monitoring Date	NO2 Value ($\mu\text{g}/\text{m}^3$)	Specification /Requirement t (as per CPCB) ($\mu\text{g}/\text{m}^3$)	Baseline monitoring Date	Baseline monitoring values ($\mu\text{g}/\text{m}^3$)	Time weighted Average
Viaduct, P-383	17-Oct-2020	82.10	80	04-July-2019	70	24 hours
	23-Oct-2020	86.10	80	04-July-2019	70	
	12-Nov-2020	41.2	80	04-July-2019	57	
	26-Nov-2020	64.3	80	04-July-2019	57	
Casting Yard Vasundhara	17-Oct-2020	85.70	80	03-July-2019	57	
	23-Oct-2020	89.20	80	03-July-2019	57	
	12-Nov-2020	45.7	80	03-July-2019	70	
	26-Nov-2020	67.3	80	03-July-2019	70	
	14-Dec-2020	28.5	80	03-July-2019	70	
	28-Dec-2020	30.7	80	03-July-2019	70	
Casting Yard Duhai	12-Nov-2020	34.6	80			
	27-Nov-2020	69.7	80	12-Nov-2020	34.6	
	14-Dec-2020	30.3	80	12-Nov-2020	34.6	
	28-Dec-2020	29.6	80	12-Nov-2020	34.6	
Guldhar Station	12-Nov-2020	39.6	80	29-Sep-2020	21.4	
	27-Nov-2020	72.7	80	29-Sep-2020	21.4	
	15-Dec-2020	32.9	80	29-Sep-2020	21.4	
	29-Dec-2020	27.2	80	29-Sep-2020	21.4	
Duhai Station	15-Dec-2020	36.1	80	30-Dec-2019	42	
	29-Dec-2020	26.7	80	30-Dec-2019	42	

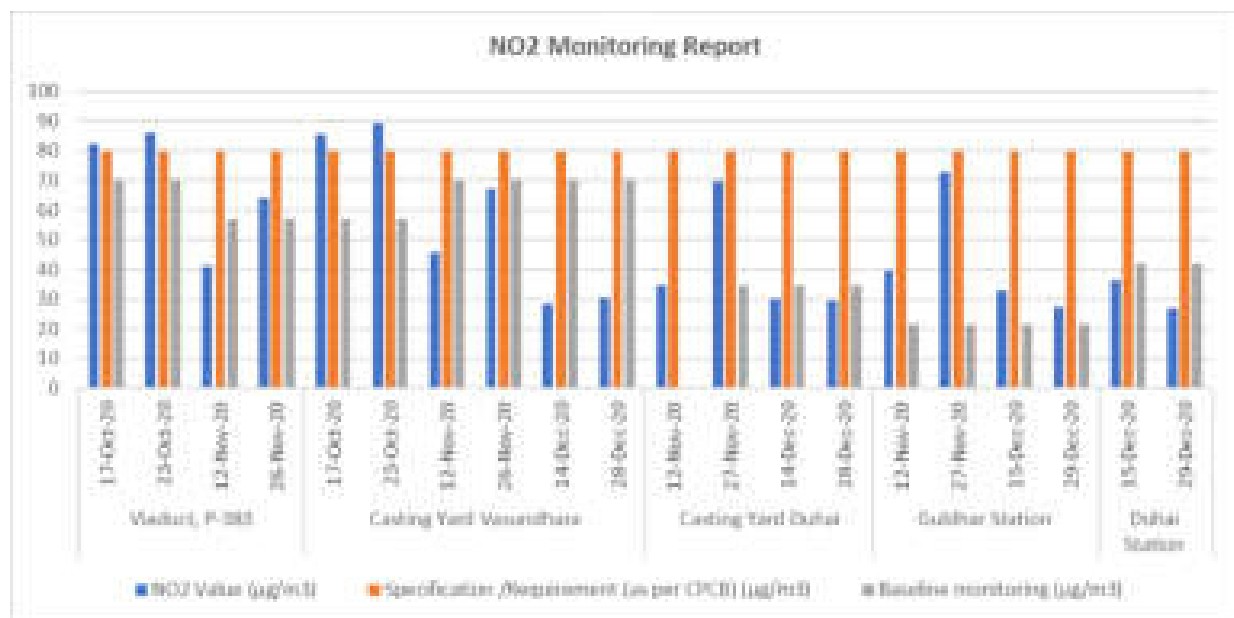


Table 15: Carbon Monoxide-CO Report-P02

Location	Monitoring Date	CO Value (mg/m ³)	Specification /Requirement (as per CPCB) (mg/m ³)	Baseline monitoring Date	Baseline monitoring values (mg/m ³)	Time weighted Average
Viaduct, P-383	17-Oct-2020	2.20	2	04-July-2019	0.87	8 hours
	23-Oct-2020	2.39	2	04-July-2019	0.87	
	12-Nov-2020	2.14	2	04-July-2019	0.87	
	26-Nov-2020	0.98	2	04-July-2019	0.87	
Casting Yard Vasundhara	17-Oct-2020	2.28	2	03-July-2019	0.70	
	23-Oct-2020	2.45	2	03-July-2019	0.70	
	12-Nov-2020	2.25	2	03-July-2019	0.70	
	26-Nov-2020	1.05	2	03-July-2019	0.70	
	14-Dec-2020	0.78	2	03-July-2019	0.70	
	28-Dec-2020	0.69	2	03-July-2019	0.70	
Casting Yard Duhai	12-Nov-2020	1.91	2			
	27-Nov-2020	1.02	2	12-Nov-2020	1.91	
	14-Dec-2020	0.71	2	12-Nov-2020	1.91	
	28-Dec-2020	0.65	2	12-Nov-2020	1.91	
Guldhar Station	12-Nov-2020	1.95	2	29-Sep-2020	0.87	
	27-Nov-2020	1.15	2	29-Sep-2020	0.87	
	15-Dec-2020	0.91	2	29-Sep-2020	0.87	
	29-Dec-2020	0.81	2	29-Sep-2020	0.87	
Duhai Station	15-Dec-2020	0.95	2	30-Dec-2019	0.88	
	29-Dec-2020	0.85	2	30-Dec-2019	0.88	

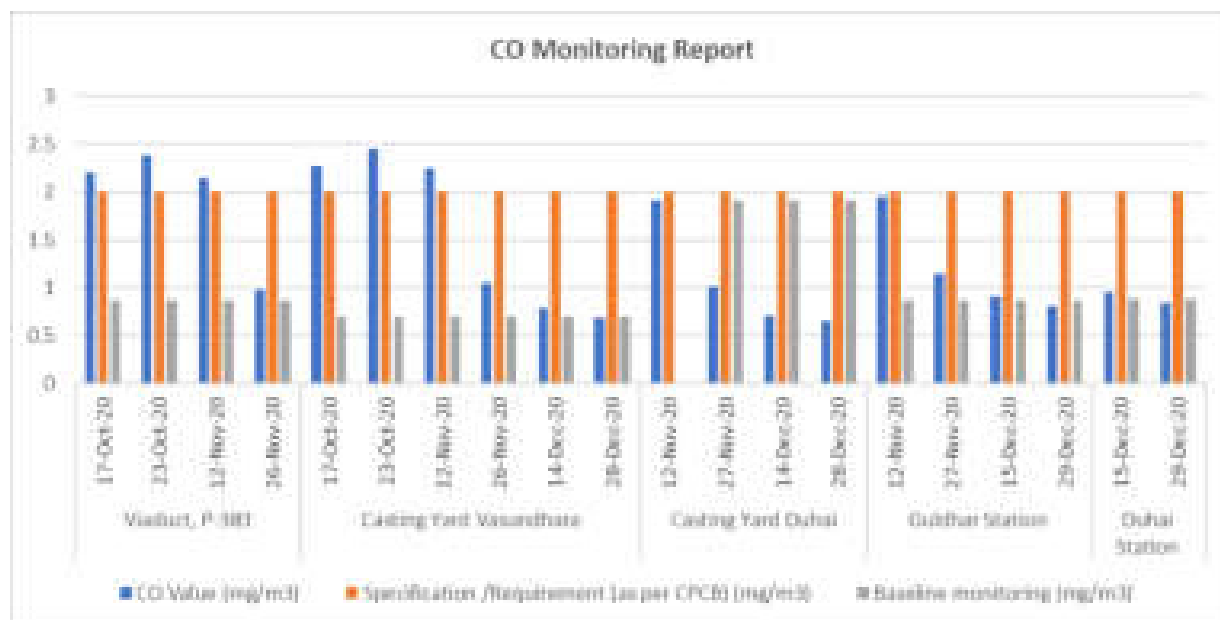
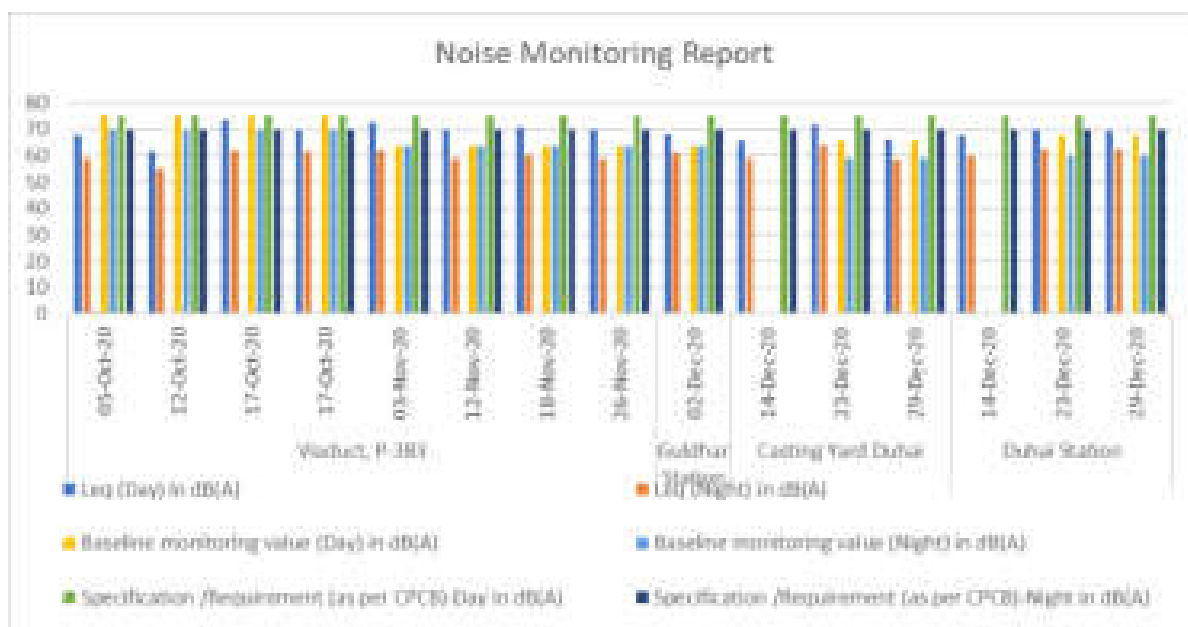
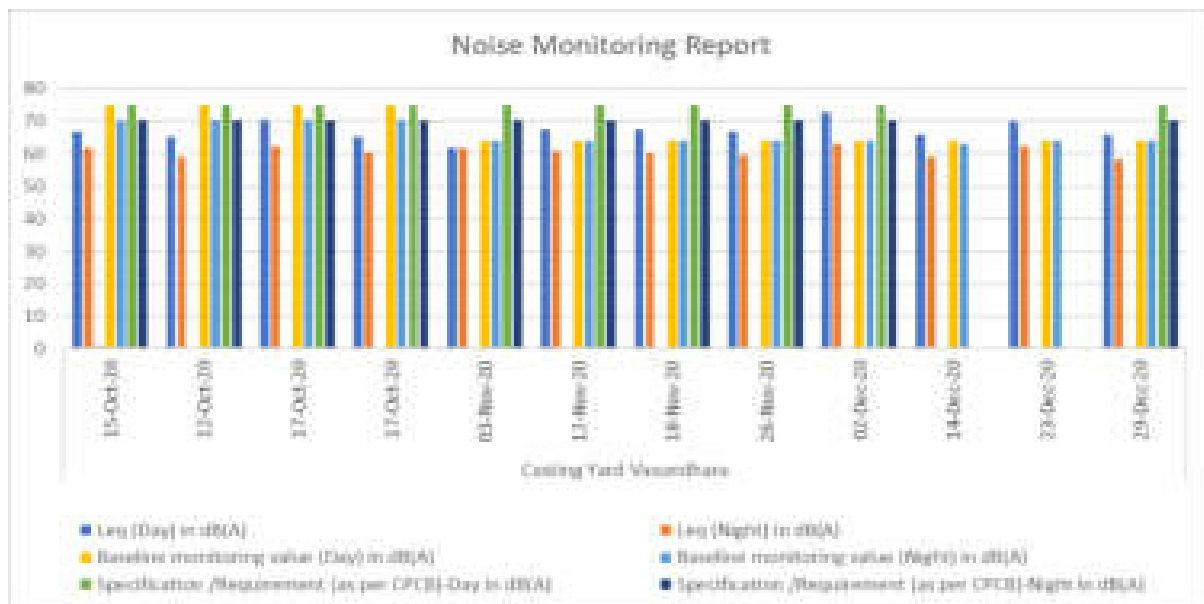


Table 16: Noise Monitoring Report-P02

Location	Monitoring Date	Leq (Day) in dB(A)	Leq (Night) in dB(A)	Baseline monitoring Date	Baseline monitoring values (Day) in dB(A)	Baseline monitoring values (Night) in dB(A)	Specification /Requirement (as per CPCB) -Day in dB(A)	Specification /Requirement (as per CPCB)- Night in dB(A)
Casting Yard Vasundhara	15-Oct-2020	66.80	61.65	03-July-2019	73.21	63.00	75	70
	12-Oct-2020	65.00	58.90	03-July-2019	73.21	63.00	75	70
	17-Oct-2020	69.99	62.31	03-July-2019	73.21	63.00	75	70
	17-Oct-2020	65.15	60.40	03-July-2019	73.21	63.00	75	70
	03-Nov-2020	61.50	61.50	03-July-2019	73.21	63.00	75	70
	12-Nov-2020	67.20	60.60	03-July-2019	73.21	63.00	75	70
	18-Nov-2020	67.35	60.15	03-July-2019	73.21	63.00	75	70
	26-Nov-2020	66.80	59.50	03-July-2019	73.21	63.00	75	70
	02-Dec-2020	72.80	62.75	03-July-2019	73.21	63.00	75	70
	14-Dec-2020	65.65	58.75	03-July-2019	73.21	63.00	75	70
	23-Dec-2020	69.75	62.30	03-July-2019	73.21	63.00	75	70
	29-Dec-2020	65.75	58.25	03-July-2019	73.21	63.00	75	70
Viaduct, P-383	05-Oct-2020	67.85	58.80	04-July-2019	72.65	66.51	75	70
	12-Oct-2020	61.50	55.00	04-July-2019	72.65	66.51	75	70
	17-Oct-2020	73.16	61.70	04-July-2019	72.65	66.51	75	70
	17-Oct-2020	69.70	61.50	04-July-2019	72.65	66.51	75	70
	03-Nov-2020	72.60	61.85	04-July-2019	72.65	66.51	75	70
	12-Nov-2020	69.80	58.65	04-July-2019	72.65	66.51	75	70
	18-Nov-2020	70.75	59.95	04-July-2019	72.65	66.51	75	70
	26-Nov-2020	69.80	58.65	04-July-2019	72.65	66.51	75	70
Guldhar Station	02-Dec-2020	68.20	61.25				75	70
Casting Yard Duhai	14-Dec-2020	65.65	58.75				75	70
	23-Dec-2020	71.65	64.10	14-Dec-2020	65.65	58.75	75	70
	29-Dec-2020	65.75	58.25	14-Dec-2020	65.65	58.75	75	70
Duhai Station	14-Dec-2020	67.65	59.80				75	70
	23-Dec-2020	69.75	62.30	14-Dec-2020	67.65	59.80	75	70
	29-Dec-2020	69.30	62.20	14-Dec-2020	67.65	59.80	75	70



3. Package No- P03 (Lot 1)

15. During the months of October-December 2020 the environmental parameters like PM₁₀, PM_{2.5}, Sulphur dioxide (SO₂), Nitrogen dioxide (NO₂), Carbon Monoxide (CO) and Noise level measured by NABL accredited laboratory (M/s Ecosteps Laboratory Pvt Ltd). PM₁₀ & PM_{2.5} value are more than permissible limit provided by CPCB. Values have exceeded due to heavy traffic movement on existing highway (Delhi- Haridwar), particular matter emission is very high due to burning of fuels in vehicles. Other environmental parameters like Sulphur dioxide (SO₂), Nitrogen dioxide (NO₂), Carbon Monoxide (CO) found within permissible limit. Noise level at day and night time on some day exceed the limit.

Table 17: Particulate Matters-PM10 Report- P03 (Lot 1)

Location	Monitoring Date	PM10 Value ($\mu\text{g}/\text{m}^3$)	Specification /Requirement (as per CPCB) ($\mu\text{g}/\text{m}^3$)	Baseline monitoring Date	Baseline monitoring values ($\mu\text{g}/\text{m}^3$)	Time weighted Average
Near Guard Room, opposite to IOCL Petrol Pump, Muradnagar	03-Oct-2020	169.00	100			24 hours
	15-Oct-2020	269.00	100			
	02-Nov-2020	344.20	100	22-Oct-2020	430.42	
	17-Nov-2020	258.20	100	22-Oct-2020	430.42	
	01-Dec-2020	304.20	100	22-Oct-2020	430.42	
	16-Dec-2020	233.80	100	22-Oct-2020	430.42	
Near Guard Room, opposite to KIET College, Muradnagar	03-Oct-2020	148.00	100			
	02-Nov-2020	299.40	100	22-Oct-2020	430.42	
	01-Dec-2020	294.00	100		430.42	
Near DG Sets opposit to Reliance Petrol Pump, P719	15-Oct-2020	254.00	100			
	17-Nov-2020	228.40	100	22-Oct-2020	398.51	
	16-Dec-2020	256.00	100	22-Oct-2020	398.51	

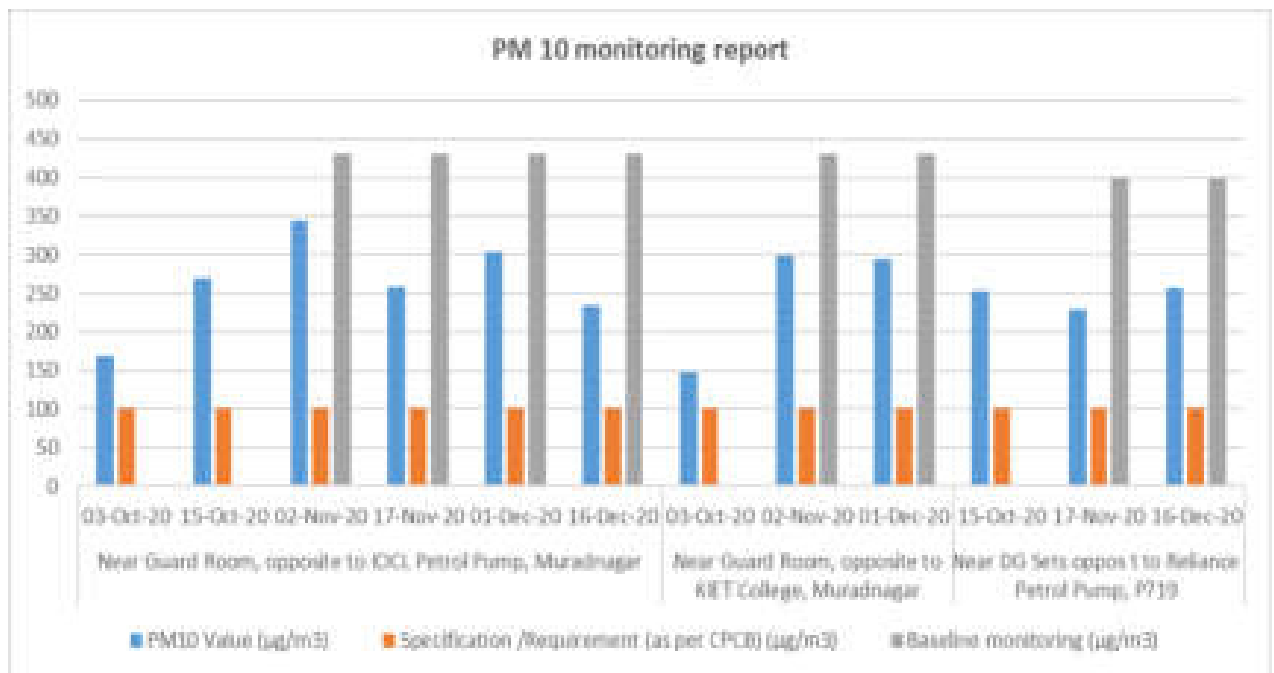


Table 18: Particulate Matters-PM2.5 Report - P03 (Lot 1)

Location	Monitoring Date	PM 2.5 Value ($\mu\text{g}/\text{m}^3$)	Specification /Requirement (as per CPCB) ($\mu\text{g}/\text{m}^3$)	Baseline monitoring Date	Baseline monitoring values ($\mu\text{g}/\text{m}^3$)	Time weighted Average
Near Guard Room, opposite to IOCL Petrol Pump, Muradnagar	03-Oct-2020	114.00	60			24 hours
	15-Oct-2020	168.00	60			
	02-Nov-2020	162.40	60	22-Oct-2020	200.23	
	17-Nov-2020	141.20	60	22-Oct-2020	200.23	
	01-Dec-2020	190.40	60	22-Oct-2020	200.23	
	16-Dec-2020	172.80	60	22-Oct-2020	200.23	
Near Guard Room, opposite to KIET College, Muradnagar	03-Oct-2020	104.00	60			
	02-Nov-2020	148.20	60	22-Oct-2020	200.23	
	01-Dec-2020	188.60	60	22-Oct-2020	200.23	
Near DG Sets opposite to Reliance Petrol Pump, P719	15-Oct-2020	179.00	60			
	17-Nov-2020	129.50	60	22-Oct-2020	198.26	
	16-Dec-2020	148.70	60	22-Oct-2020	198.26	

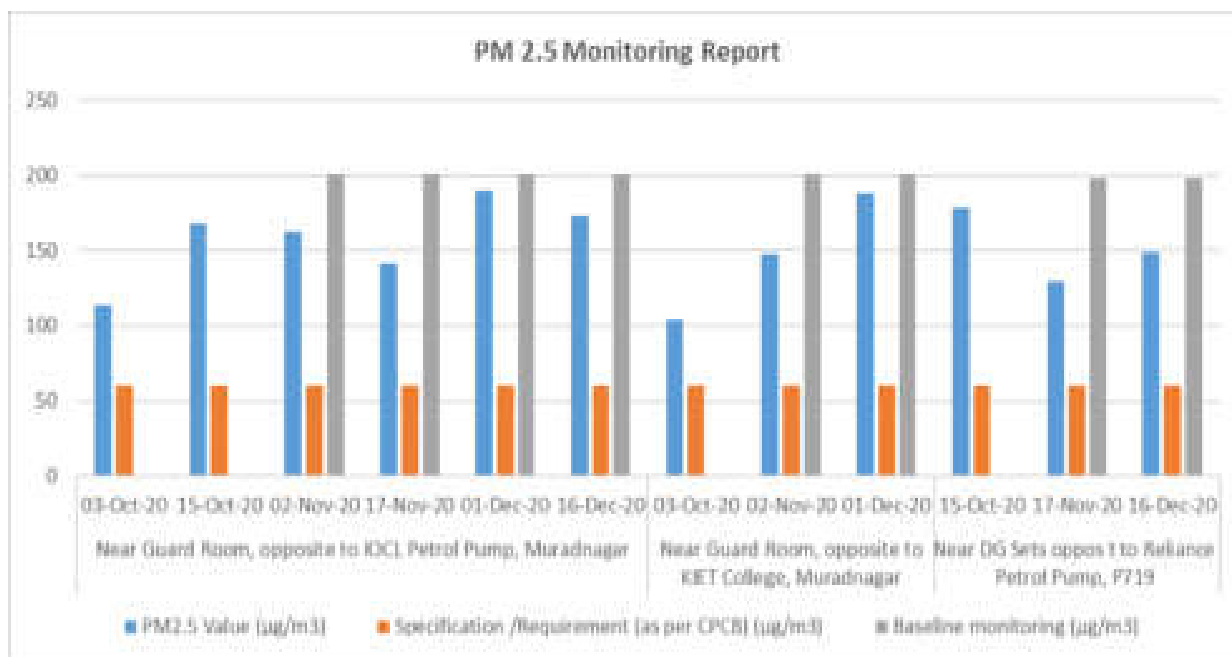


Table 19: Sulphur Dioxide-SO₂ report- P03 (Lot 1)

Location	Monitoring Date	SO ₂ Value (µg/m ³)	Specification /Requirement (as per CPCB) (µg/m ³)	Baseline monitoring Date	Baseline monitoring values(µg/m ³)	Time weighted Average
Near Guard Room, opposite to IOCL Petrol Pump, Muradnagar	02-Nov-2020	18.10	80	22-Oct-2020	30.20	24 hours
	17-Nov-2020	14.90	80	22-Oct-2020	30.20	
	01-Dec-2020	16.20	80	22-Oct-2020	30.20	
	16-Dec-2020	13.10	80	22-Oct-2020	30.20	
Near Guard Room, opposite to KIET College, Muradnagar	02-Nov-2020	14.30	80	22-Oct-2020	30.20	
	01-Dec-2020	14.80	80	22-Oct-2020	30.20	
Near DG Sets opposite to Reliance Petrol Pump, P719	17-Nov-2020	11.20	80	22-Oct-2020	24.50	
	16-Dec-2020	12.20	80	22-Oct-2020	24.50	

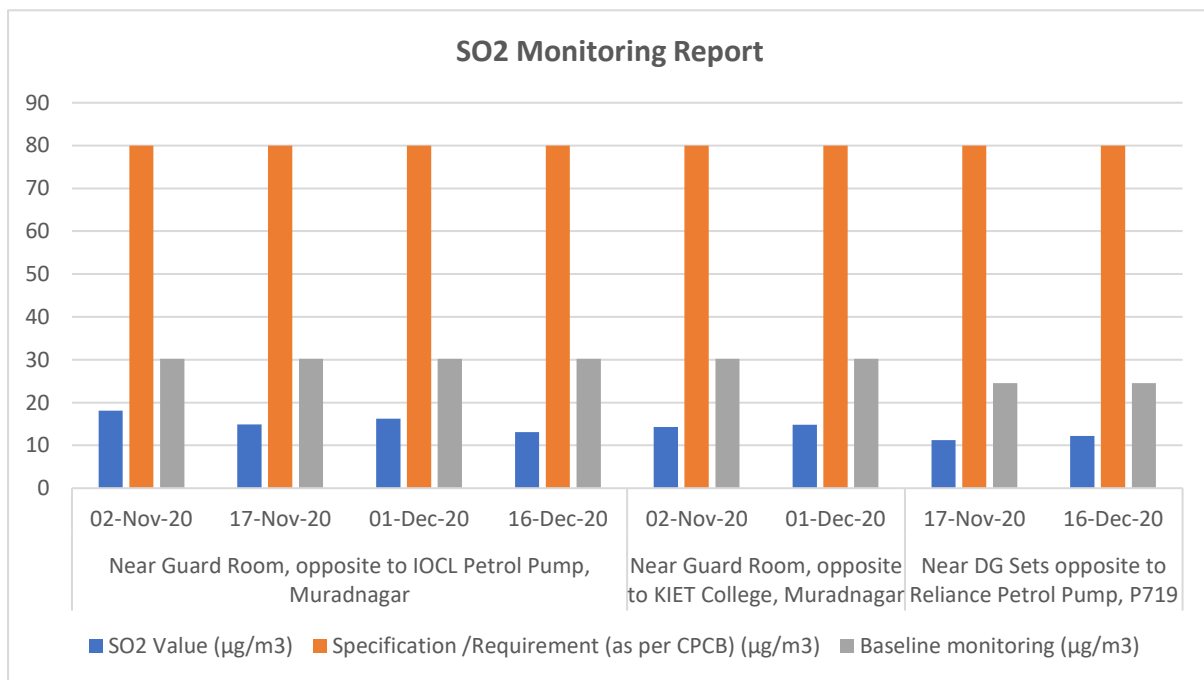


Table 20: Nitrogen Dioxide-NO₂ report- P03 (Lot 1)

Location	Monitoring Date	NO ₂ Value (µg/m ³)	Specification /Requirement (as per CPCB) (µg/m ³)	Baseline monitoring Date	Baseline monitoring values (µg/m ³)	Time weight ed Avera ge
Near Guard Room, opposite to IOCL Petrol Pump, Muradnagar	02-Nov-2020	47.60	80	22-Oct-2020	72.00	24 hours
	17-Nov-2020	44.20	80	22-Oct-2020	72.00	
	01-Dec-2020	44.90	80	22-Oct-2020	72.00	
	16-Dec-2020	41.80	80	22-Oct-2020	72.00	
Near Guard Room, opposite to KIET College, Muradnagar	02-Nov-2020	35.60	80	22-Oct-2020	72.0	
	01-Dec-2020	47.70	80	22-Oct-2020	72.0	
Near DG Sets opposite to Reliance Petrol Pump, P719	17-Nov-2020	41.20	80	22-Oct-2020	61.6	
	16-Dec-2020	38.40	80	22-Oct-2020	61.6	

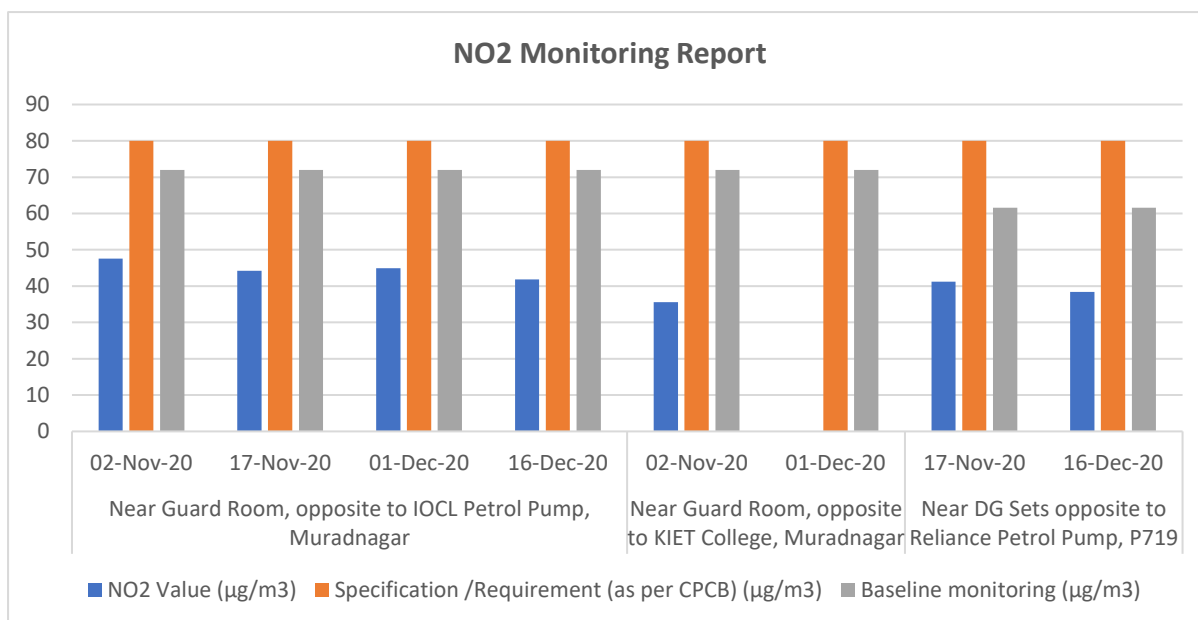


Table 21: Carbon Monoxide-CO report- P03 (Lot 1)

Location	Monitoring Date	CO Value (mg/m ³)	Specification /Requirement (as per CPCB) (mg/m ³)	Baseline monitoring Date	Baseline monitoring values (mg/m ³)	Time weighted Average
Near Guard Room, opposite to IOCL Petrol Pump, Muradnagar	02-Nov-2020	0.71	2	22-Oct-2020	1.05	8 hours
	17-Nov-2020	0.62	2	22-Oct-2020	1.05	
	01-Dec-2020	0.51	2	22-Oct-2020	1.05	
	16-Dec-2020	0.64	2	22-Oct-2020	1.05	
Near Guard Room, opposite to KIET College, Muradnagar	02-Nov-2020	0.61	2	22-Oct-2020	1.05	
	01-Dec-2020	0.57	2	22-Oct-2020	1.05	
Near DG Sets opposite to Reliance Petrol Pump, P719	17-Nov-2020	0.53	2	22-Oct-2020	0.86	
	16-Dec-2020	0.57	2	22-Oct-2020	0.86	

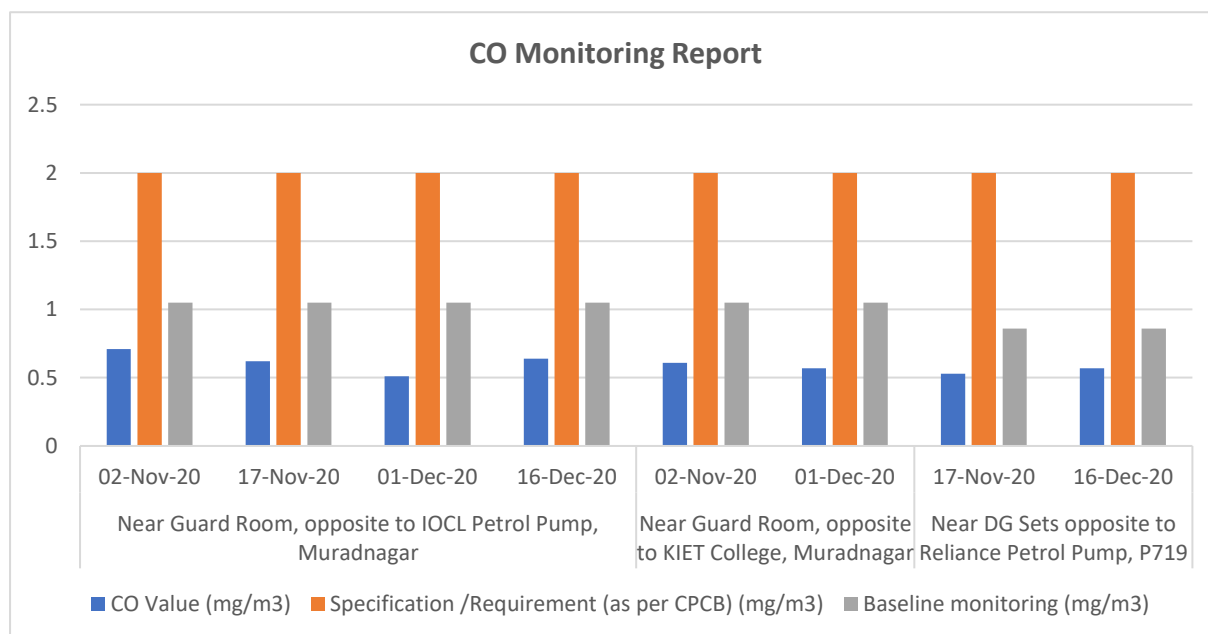


Table 22: Noise Monitoring Report- P03 (Lot 1)

Location	Monitoring Date	Leq (Day) in dB(A)	Leq (Night) in dB(A)	Baseline monitoring Date	Baseline monitoring values (Day) in dB(A)	Baseline monitoring values (Night) in dB(A)	Specific ation /Requir ement (as per CPCB)- Day in dB(A)	Specific ation /Requir ement (as per CPCB)- Night in dB(A)
Near Guard Room, opposite to IOCL Petrol Pump, Muradnagar	03-Oct-2020	75.10	69.90				75	70
	15-Oct-2020	78.30	74.90				75	70
	02-Nov-2020	76.10	68.90	22-Oct-2020	72.50	68.90	75	70
	17-Nov-2020	73.80	64.70	22-Oct-2020	72.50	68.90	75	70
	01-Dec-2020	63.20	61.60	22-Oct-2020	72.50	68.90	75	70
	16-Dec-2020	67.90	64.80	22-Oct-2020	72.50	68.90	75	70
Near Guard Room, opposite to KIET College, Muradnagar	03-Oct-2020	74.60	67.30				75	70
	02-Nov-2020	76.20	77.50	22-Oct-2020	72.50	68.90	75	70
	01-Dec-2020	61.90	59.20	22-Oct-2020	72.50	68.90	75	70
Near DG Sets opposite to Reliance Petrol Pump, P719	15-Oct-2020	71.90	74.80				75	70
	17-Nov-2020	73.40	69.70	22-Oct-2020	74.80	69.50	75	70
	16-Dec-2020	70.10	67.20	22-Oct-2020	74.80	69.50	75	70

4. Package No- P03 (Lot 2)

16. During the months of October-December 2020 the environmental parameters like PM10, PM2.5, Sulphur dioxide (SO₂), Nitrogen dioxide (NO₂), Carbon Monoxide (CO) and Noise level measured by NABL accredited laboratory (M/s Arihant Analytical Laboratory Pvt. Ltd). PM 10 & PM 2.5 value are more than permissible limit provided by CPCB. Values have exceeded due to heavy traffic movement on existing highway (Delhi- Haridwar), particular matter emission is very high due to burning of fuels in vehicles. Other environmental parameters like Sulphur dioxide (SO₂), Nitrogen dioxide (NO₂), Carbon Monoxide (CO) found within permissible limit. The noise level was found with the limit.

Table 23: Particulate Matters-PM10 Report -P03 (Lot 2)

Location	Monitoring Date	PM10 Value (µg/m ³)	Specific ation /Requir ement (as per CPCB) (µg/m ³)	Baseline monitoring Date	Baseline monitoring values (µg/m ³)	Time weighted Average
P3, Station & Viaduct	16-Oct-20	307.70	100			24 hours
	13-Nov-20	311.40	100	26-Oct-20	322.70	
	12-Dec-20	261.60	100	26-Oct-20	322.70	

Location	Monitoring Date	PM10 Value ($\mu\text{g}/\text{m}^3$)	Specification /Requirement (as per CPCB) ($\mu\text{g}/\text{m}^3$)	Baseline monitoring Date	Baseline monitoring values ($\mu\text{g}/\text{m}^3$)	Time weighted Average
(Modinpur/Kadrabad)	26-Dec-20	211.20	100	26-Oct-20	322.70	
P5, Station & Viaduct (Partapur/Rithani)	16-Oct-20	298.40	100			
	13-Nov-20	309.20	100	26-Oct-20	320.30	
	27-Nov-20	301.50	100	26-Oct-20	320.30	
	12-Dec-20	278.30	100	26-Oct-20	320.30	
	27-Nov-20	294.20	100	26-Oct-20	310.20	
Casting Yard (Shatabdi Nagar)	26-Dec-20	198.10	100	26-Oct-20	310.20	

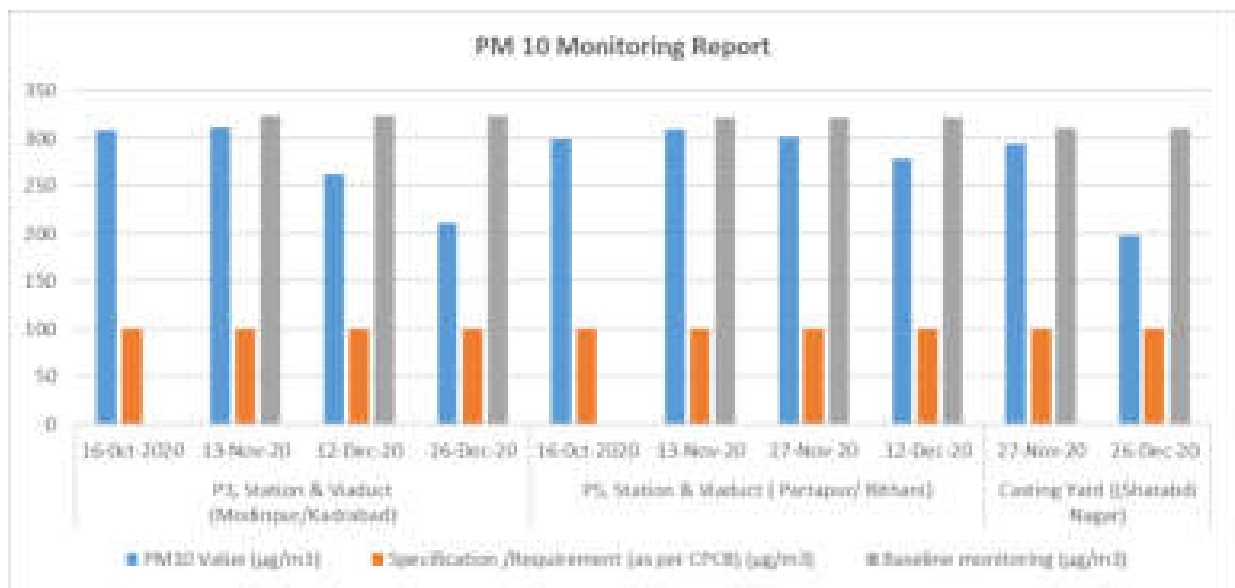


Table 24: Particulate Matters-PM2.5 Report-P03 (Lot 2)

Location	Monitoring Date	PM2.5 Value ($\mu\text{g}/\text{m}^3$)	Specification /Requirement (as per CPCB) ($\mu\text{g}/\text{m}^3$)	Baseline monitoring Date	Baseline monitoring values ($\mu\text{g}/\text{m}^3$)	Time weighted Average
P3 (Modinpur/ Kadrabad)	16-Oct-20	264.30	60			24 hours
	13-Nov-20	299.10	60	26-Oct-20	318.20	
	12-Dec-20	242.50	60	26-Oct-20	318.20	
	26-Dec-20	187.20	60	26-Oct-20	318.20	
P5 (Partapur/ Rithani)	16-Oct-20	252.80	60			
	13-Nov-20	299.10	60	26-Oct-20	310.50	
	27-Nov-20	288.20	60	26-Oct-20	310.50	
	12-Dec-20	242.60	60	26-Oct-20	310.50	
Casting Yard (Shatabdi Nagar)	27-Nov-20	271.20	60	26-Oct-20	297.30	
	26-Dec-20	166.20	60	26-Oct-20	297.30	

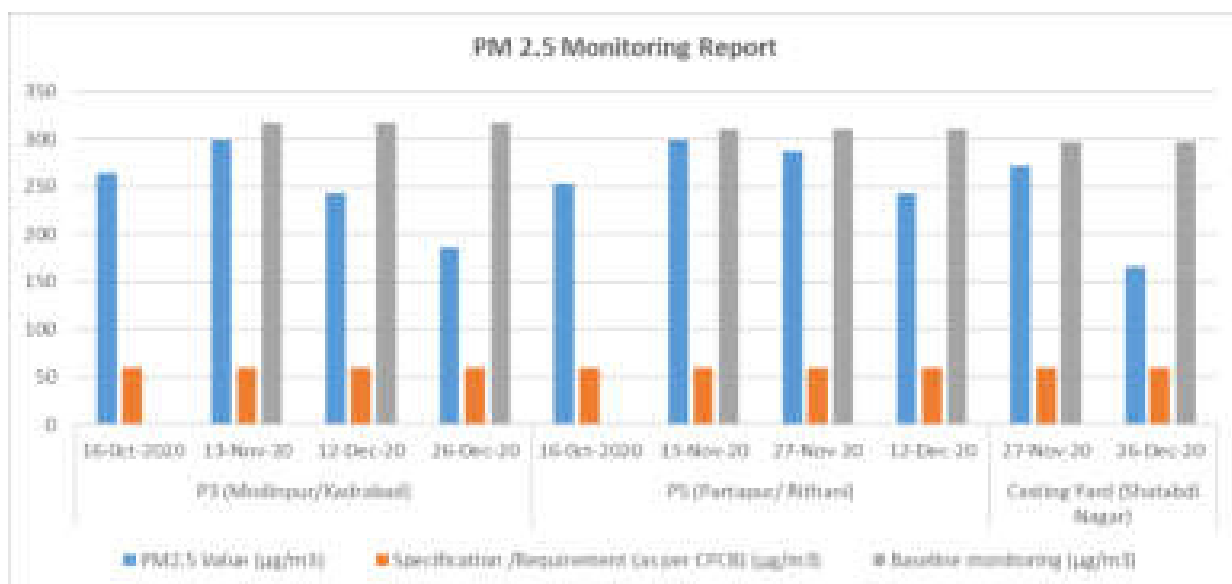


Table 25: Sulphur Dioxide-SO₂ Report-P03 (Lot 2)

Location	Monitoring Date	SO ₂ Value (µg/m ³)	Specification /Requirement (as per CPCB) (µg/m ³)	Baseline monitoring Date	Baseline monitoring values (µg/m ³)	Time weighted Average
P3 (Modinpur/ Kadrabad)	16-Oct-20	72.50	80			24 hours
	13-Nov-20	11.50	80	26-Oct-20	71.30	
	12-Dec-20	10.50	80	26-Oct-20	71.30	
	26-Dec-20	19.50	80	26-Oct-20	71.30	
P5 (Partapur/ Rithani)	16-Oct-20	78.50	80			
	13-Nov-20	12.80	80	26-Oct-20	16.20	
	27-Nov-20	12.20	80	26-Oct-20	16.20	
	12-Dec-20	9.50	80	26-Oct-20	16.20	
Casting Yard (Shatabdi Nagar)	27-Nov-20	11.70	80	26-Oct-20	18.60	
	26-Dec-20	16.50	80	26-Oct-20	18.60	

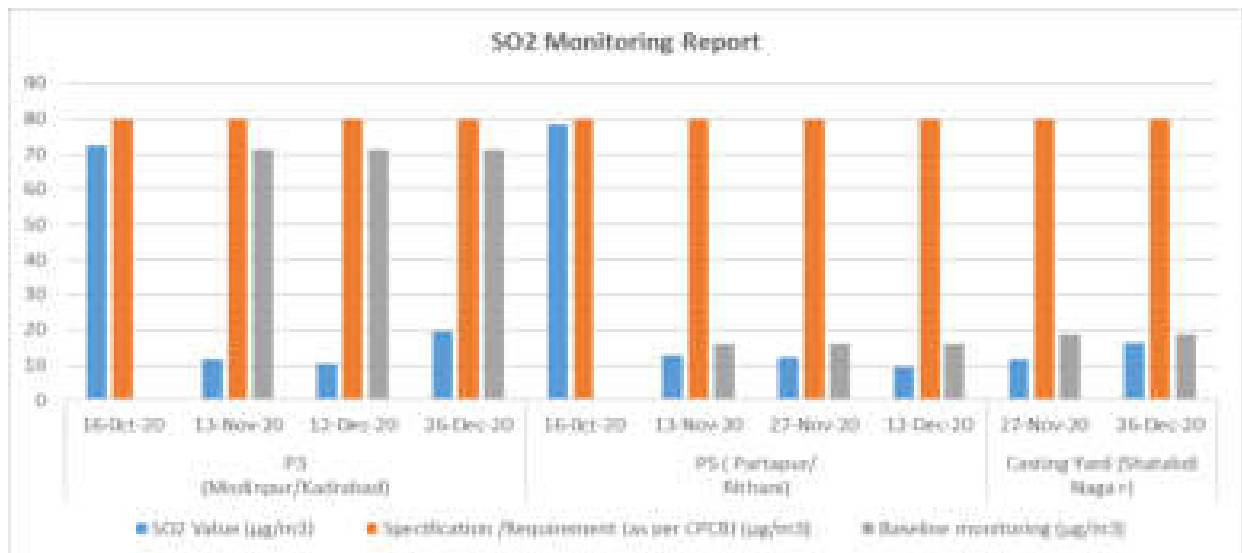


Table 26: Nitrogen Dioxide-NO₂ Report-P03 (Lot 2)

Location	Monitoring Date	NO ₂ Value (µg/m ³)	Specification /Requirement (as per CPCB) (µg/m ³)	Baseline monitoring Date	Baseline monitoring values (µg/m ³)	Time weighted Average
P3 (Modinpur/Kadradabad)	16-Oct-20	10.50	80			24 hours
	13-Nov-20	56.40	80	26-Oct-20	19.50	
	12-Dec-20	41.30	80	26-Oct-20	19.50	
	26-Dec-20	46.60	80	26-Oct-20	19.50	
P5 (Partapur/Rithani)	16-Oct-20	14.30	80			
	13-Nov-20	54.20	80	26-Oct-20	57.50	
	27-Nov-20	49.30	80	26-Oct-20	57.50	
	12-Dec-20	44.20	80	26-Oct-20	57.50	
Casting Yard (Shatabdi Nagar)	27-Nov-20	47.60	80	26-Oct-20	61.50	
	26-Dec-20	48.60	80	26-Oct-20	61.50	

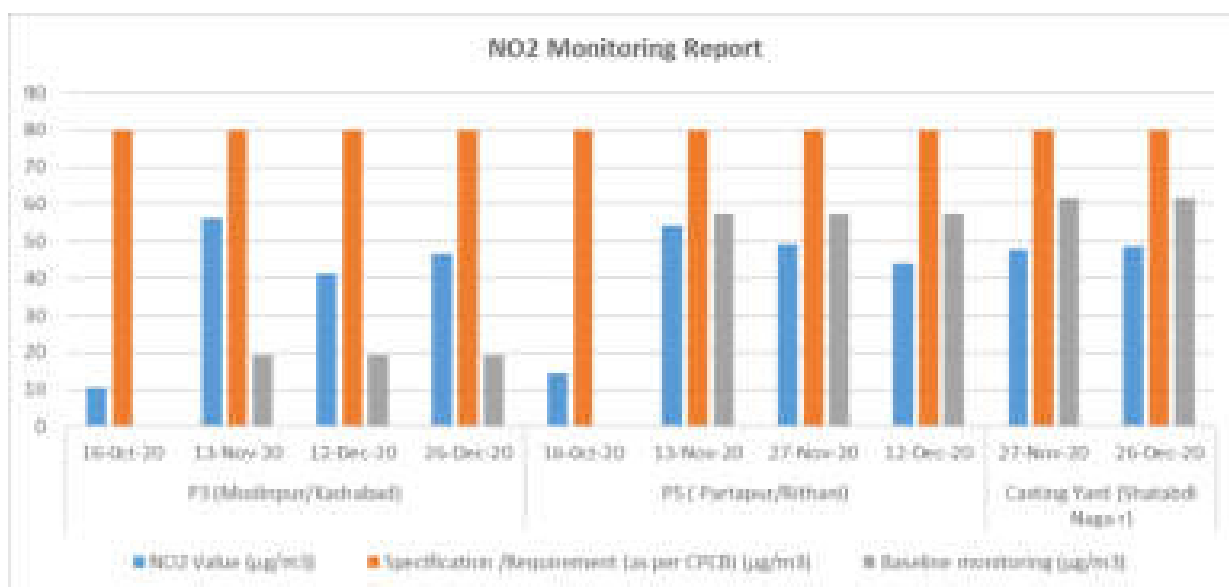


Table 27: Carbon Monoxide-CO Report-P03 (Lot 2)

Location	Monitoring Date	CO Value (mg/m3)	Specification /Requirement (as per CPCB) (mg/m3)	Baseline monitoring Date	Baseline monitoring values (mg/m3)	Time weighted Average
P3 (Modinpur/ Kadrabad)	16-Oct-20	1.00	2			8 hours
	13-Nov-20	1.00	2	26-Oct-20	1.50	
	12-Dec-20	1.40	2	26-Oct-20	1.50	
	26-Dec-20	1.60	2	26-Oct-20	1.50	
P5 (Partapur/ Rithani)	16-Oct-20	1.00	2	26-Oct-20		
	13-Nov-20	1.50	2	26-Oct-20	1.00	
	27-Nov-20	1.00	2	26-Oct-20	1.00	
	12-Dec-20	1.50	2	26-Oct-20	1.00	
Casting Yard (Shatabdi Nagar)	27-Nov-20	1.20	2	26-Oct-20	1.00	
	26-Dec-20	1.50	2	26-Oct-20	1.00	

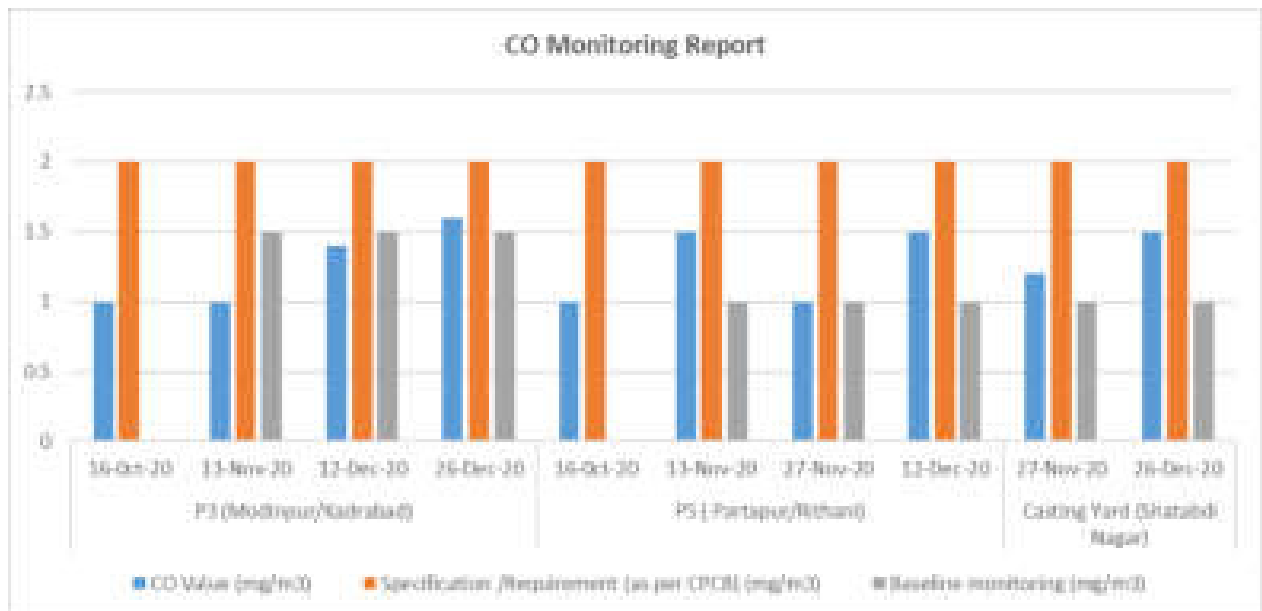
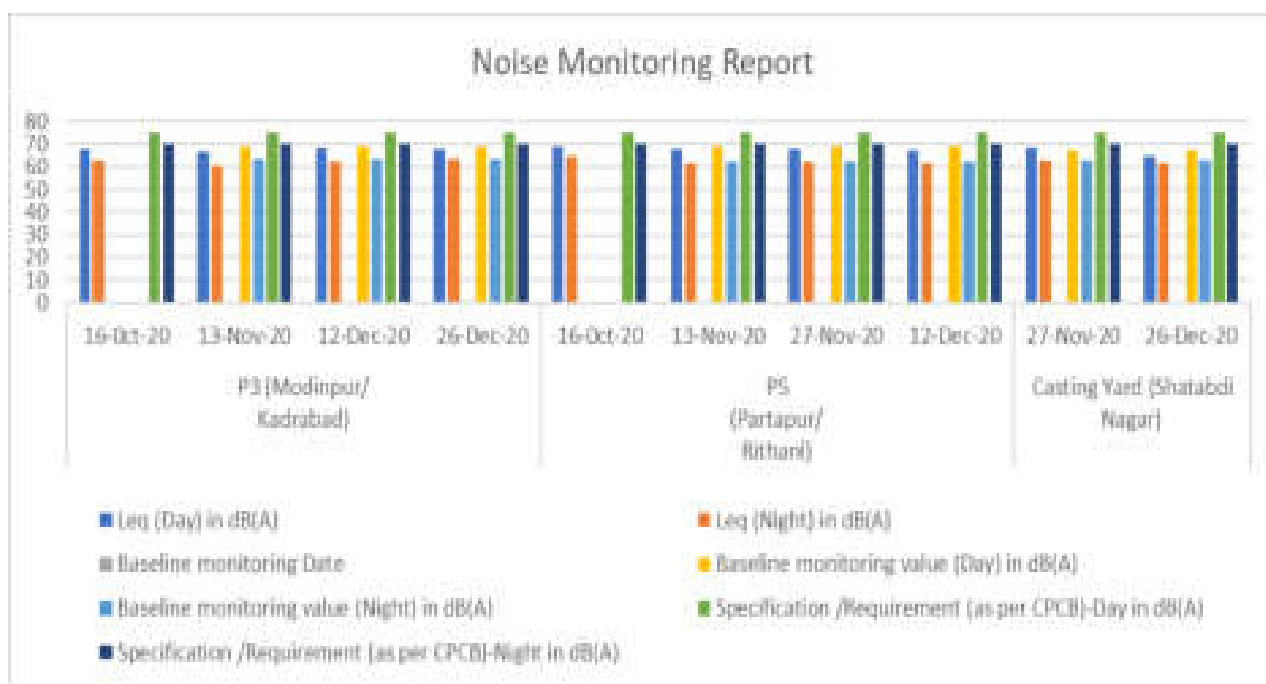


Table 28: Noise Monitoring Report-P03 (Lot 2)

Location	Monitoring Date	Leq (Day) in dB(A)	Leq (Night) in dB(A)	Baseline monitoring Date	Baseline monitoring value (Day) in dB(A)	Baseline monitoring value (Night) in dB(A)	Specification /Requirement (as per CPCB)-Day in dB(A)	Specification /Requirement (as per CPCB)-Night in dB(A)
P3 (Modinpur/ Kadrabad)	16-Oct-20	67.70	62.60				75	70
	13-Nov-20	66.80	60.40	26-Oct-20	68.80	63.70	75	70
	12-Dec-20	68.30	62.50	26-Oct-20	68.80	63.70	75	70
	26-Dec-20	67.70	63.30	26-Oct-20	68.80	63.70	75	70
P5 (Partapur/ Rithani)	16-Oct-20	69.30	64.50				75	70
	13-Nov-20	67.50	61.70	26-Oct-20	68.80	62.10	75	70
	27-Nov-20	67.50	62.30	26-Oct-20	68.80	62.10	75	70
	12-Dec-20	67.20	61.40	26-Oct-20	68.80	62.10	75	70
Casting Yard (Shatabdi Nagar)	27-Nov-20	68.40	62.60	26-Oct-20	67.40	62.60	75	70
	26-Dec-20	64.70	61.70	26-Oct-20	67.40	62.60	75	70



G. Various measures taken to mitigate air pollution

17. Every winter season, due to various reasons such as burning of crops, smog in the atmosphere, uncontrolled and haphazard construction activities etc. NCR faces very high pollution levels. From October onwards, a Graded Response Action Plan (GRAP) is enforced by the Central Pollution Control Board (CPCB) which lays down strict adherence to various measures to mitigate air pollution during construction activities. During the construction of Delhi-Meerut RRTS corridor, all such measures are being strictly enforced. Some of the measures adopted to mitigate air pollution are as under:

18. Frequent sprinkling of water to suppress dust at the sites. 30 water tankers were

deployed for water sprinkling. The source of water are RO reject water, recycled water, STP treated water.

- Deployment of anti-smog guns. -15 such guns were deployed;
- Covering of construction vehicles carrying construction material with tarpuline;
- Disposal of C & D waste to the nearest C & D plant; and
- Greening of open areas and tree plantation wherever possible.

19. Photographs depicting some of the above measures are enclosed at **Attachment-12**.

H. Measures to combat COVID-19 pandemic

20. The project implementation suffered a major setback due to the COVID-19 pandemic and due to Nationwide lockdown, the construction work was stopped from 23rd March 2020. However due to sustained efforts by NCRTC and co-operation by the contractors, the construction work on limited scale was commenced from 11th May 2020 onwards. To prevent spread of the pandemic various measures such as compulsory wearing of masks by all the personnel, frequent sanitization of work areas and labour camps, special arrangements in buses during transportation of workmen to sites to ensure safe distance etc. are being adopted. Training to all personnel for various precautions to combat COVID-19 pandemic are organized at periodic interval. Photographs depicting the above measures are enclosed at **Attachment -13**. As a result of special efforts by NCRTC, except for the period from 23rd March to 11th May 2020, the construction work in the project is in progress and presently the same is in progress in entire length of the corridor.

I. Building Conditions survey for underground section of the project

21. This RRTS corridor involves underground construction (RRTS alignment and stations). The contracts for the underground section in Delhi (Pkg-4) and contract for the underground section in Meerut (Pkg-8) have been awarded in Dec.2020. The contractors in both these underground packages have taken up the building condition survey which is expected to be completed by May 2021.

J. Noise and Vibration study

22. Noise and vibration study for the entire project including the connecting line from Sarai Kale Khan RRTS station to Stabling yard at Jungpura, was entrusted by NCRTC to Central Road Research Institute (CRRI). CRRI has submitted their final report which is under review and finalization.

K. Up-dation of EIA Report

23. The preparation of EIA Report for the project was taken up in 2018. At that time the location of the stabling yard at Jungpura including the alignment of connecting line viaduct from Sarai Kale Khan RRTS station to this stabling yard, was not finalized and hence the above two components of the project are not included in the approved EIA report. Now when the details of the above two components have been finalized, the Environment Impact Assessment study for the stabling yard and the connecting line has been taken up by engaging a consultant. The same will be included as an addendum to already approved EIA report and is planned to be submitted to ADB during March 2021. Further revision/up-dation of the EIA report will be taken up as and when there are any changes in the project design.



UTTAR PRADESH POLLUTION CONTROL BOARD

Validity Period :29/11/2019 To 31/03/2023

Ref No. - 73929/UPPCB/Ghaziabad(UPPCBRO)/CTE/GHAZIABAD/2019

Dated:- 29/11/2019

To ,

Shri SHASHIKANT PATIL

M/s KEC INTERANTIONAL

KEC INTERNATIONAL LIMITED, NEAR VASUNDHARA FARM, MOHAN NAGAR LINK ROAD, SECTOR -8, VASUNDHARA, GHAZIABAD,GHAZIABAD,201012
GHAZIABAD

Sub : Consent to Establish for New Unit/Expansion/Diversification under the provisions of Water (Prevention and control of pollution) Act, 1974 as amended and Air (Prevention and control of Polution) Act, 1981 as amended.

Please refer to your Application Form No.- 6537795 dated - 14/11/2019. After examining the application with respect to pollution angle, Consent to Establish (CTE) is granted subject to the compliance of following conditions :

1. Consent to Establish is being issued for following specific details :

A- Site along with geo-coordinates :

B- Main Raw Material :

Main Raw Material Details		
Name of Raw Material	Raw Material Unit Name	Raw Material Quantity
Cement	Metric Tonnes/Day	
sand	Metric Tonnes/Day	
Aggregate	Metric Tonnes/Day	

C- Product with capacity :

Product Detail	
Name of Product	Product Quantity
RMC-60M3/hr	0

D- By-Product if any with capacity :

By Product Detail			
Name of By Product	Unit Name	Licence Product Capacity	Install Product Capacity
concrete	Metric Tonnes/Day	0	0

2. Water Requirement (in KLD) and its Source :

Source of Water Details		
Source Type	Name of Source	Quantity (KL/D)
Municipal Supply	private water tanker	10.0

3. Quantity of effluent (In KLD) :

Effluent Details	
Source Consumption	Quantity (KL/D)
Domestic	4.0

4. Fuel used in the equipment/machinery Name and Quantity (per day) :

Fuel Consumption Details		
Fuel	Consumption(tpd/kld)	Use
Others	0.1	DG Sets-125 KVA
Others	0.1	DG Sets-62.5 KVA
Others	0.1	DG Sets-180 KVA

5. For any change in above mentioned parameters, it will be mandatory to obtain Consent to Establish again. No further expansion or modification in the plant shall be carried out without prior approval of U.P. Pollution Control Board.

For any change in above mentioned parameters, it will be mandatory to obtain Consent to Establish again. No further expansion or modification in the plant shall be carried out without prior approval of U.P. Pollution Control Board.

2. You are directed to furnish the progress of Establishment of plant and machinery, green belt, Effluent Treatment Plant and Air pollution control devices, by 10th day of completion of subsequent quarter in the Board.
3. Copy of the work order/purchase order, regarding instruction and supply of proposed Effluent Treatment Plant/Sewerage Treatment Plant /Air Pollution control System shall be submitted by the industry till 31/03/2023 to the Board.
4. Industry will not start its operation, unless CTO is obtained under water (Prevention and control of Pollution) Act, 1974 and Air (Prevention and control of Pollution)Act, 1981 from the Board.
5. It is mandatory to submit Air and Water consent Application,complete in all respect, four months before start of operation, to the U.P. Pollution Control Board.
6. Legal action under water (Prevention and control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act,1981 may be initiated against the industry With out any prior information,in case of non compliance of above conditions.

Specific Conditions:

1. This Consent to Establish is being granted to M/s KEC INTERANTIONAL, Plot No. NEAR VASUNDHARA FARM, MOHAN NAGAR LINK ROAD, SECTOR -8, VASUNDHARA, GHAZIABAD for its unit for establishment of an industry at Plot No. NEAR VASUNDHARA FARM, MOHAN NAGAR LINK ROAD, SECTOR -8, VASUNDHARA, GHAZIABAD for RMC-60M3/hr ONLY. This Consent to Establish will be VOID if there is any change in above mentioned address or product. The applicant shall make an application along with prescribed fee for trail consent(CTO) at least 30 days before the operation of unit.
2. This Consent is valid for the Establishment of unit only. The industry can only manufacture products, at the rate of production as mentioned in consent order. In case of any change in production capacity, process, raw materials use etc. the industry will have to intimate the Board. For any enhancement of the above, fresh Consent to Establish has to be obtained from U.P. State Pollution Control Board.
3. Industry shall comply with various Waste Management Rules as notified by MoEf&CC i.e. Plastic Waste Management Rules, 2016, Solid Waste Management Rules, 2016, Hazardous and Other Wastes (Management and Transboundary) Rules, 2016, E-waste (Management) Rules, 2016, Construction and Demolition Waste Management Rules, 2016.
4. Industry shall ensure adequate plantation and green belt within its premises. Green cover shall be in compliance of approved map from concerned Authority.
5. Industry shall ensure that industrial effluent is discharged from approved outlet and only after treatment in effluent treatment plant (as per proposal).
6. Under the Noise Pollution (Regulation and Control) Rule 2000, the industry shall take adequate measures for control of noise from its own sources within the premises so as to maintain ambient air quality standards in respect of noise to less than 75 dB(A) during day time and 70 dB(A)
7. Industry shall abide by directions given by Hon'ble Supreme Court, High Court, National Green Tribunals, Central Pollution Control Board and Uttar Pradesh Pollution Control Board for protection and safeguard of environment from time to time.
8. Prior to abstraction, industry shall obtain a No Objection Certificate from Central Ground Water Authority for abstraction of ground water.
9. The industry shall provide adequate arrangement for fighting the accidental leakages/discharge of any air pollutant/gas/liquid from the vessel, machinery etc. which are likely to cause fire hazard including environmental pollution.
10. The industry shall adhere to general standards terms and conditions of Water/Air Acts and compliance of Environment standards as per Environment (protection) Act 1986.
11. Industry shall submit first compliance report with respect to conditions imposed within 30 days of issue of this permission.
12. Industry shall develop green belt in accordance with Government Order 07/55-022018/09(writ)/2016 dated 26/02/2018 and UPPCB Office order issued vide letter no. H16405/220/2018/02 dated 16/02/2018
13. Industry shall ensure carbon offsetting as per Government Order (Environment Department) issued vide letter no. H17259/ 183/55-2-2018/09(writ)/2016 dated 15.03.2018.
14. A good house keeping shall be maintained both within the factory and in the premises. All hoods, pipes, valves, sewers and drains shall be leak proof. Floor washings shall be admitted into the effluent collection system only and shall not be allowed to find their way into storm drains or open areas.
15. Separate power connection with energy meter shall be provided for the Pollution Control Equipments and record of power consumption and chemicals consumption for the operation of pollution control equipment shall be maintained separately.
16. The applicant shall furnish to the visiting officer and / or the Board any information regarding the construction, installation or operation of the effluent treatment system / air pollution control equipment / secured storage area of Hazardous Waste and such other particulars as may be pertinent for preventing and controlling pollution.
17. The industry shall comply with ambient air quality standards of SO₂ - 80 g/m³; NO_x - 80 g/m³, PM_{2.5} - 60 g/m³ ; PM₁₀ – 100 g/m³ ; and other parameters as notified by MoEF & CC, GOI vide notification No.GSR 826(E), dated 16.11.2009 during operational phase of the project.
18. The industry shall provide & operate the following dust containment / suppression measures to comply with standards prescribed by the Board. a) Shall construct wind breaking wall all around the periphery of the site. b) Shall install machinery in a closed shed. c) Shall provide bag filter to mitigate fugitive dust emissions from process section and house the bag filter in closed shed. d) Shall store all the raw materials & products in closed sheds only. e) Shall regularly undertake cleaning & wetting of ground at your premises. f) Shall provide & operate water sprinklers at all dust emanating sources.
19. Concealing the factual data or submission of false information / fabricated data and failure to comply with any of the conditions mentioned in this order may result in withdrawal of this order and

attract action under the provisions of relevant pollution control Acts.

20. The industry is liable to pay compensation for any environmental damage caused by it, as fixed by the Hon'ble Supreme Court, High Court, National Green Tribunal, Central Pollution Control Board and Uttar Pradesh Pollution Control Board.

21. The Board reserves its right to modify above conditions or stipulate any additional conditions including revocation of this order, in the interest of environment protection. In case of violation of above mentioned conditions or any public complaint the CTE shall be withdrawn.

Please note that consent to Establish will be revoked, in case of, non compliance of any of the above mentioned conditions. Board reserves its right for amendment or cancellation of any of the conditions specified above. Industry is directed to submit its first compliance report regarding above mentioned specific and general conditions till 29/12/2019 in this office. Ensure to submit the regular compliance report otherwise this Consent to Establish will be revoked.

REGIONAL OFFICER, GHAZIABAD

Dated:- 29/11/2019

Copy To -

CEO-1, U.P. Pollution Control Board, Lucknow.

REGIONAL OFFICER, GHAZIABAD



UTTAR PRADESH POLLUTION CONTROL BOARD

Validity Period :28/08/2019 To 31/03/2023

Ref No. - 64729/UPPCB/Ghaziabad(UPPCBRO)/CTE/GHAZIABAD/2019

Dated:- 29/09/2019

To ,

Shri APCO CRFG JV
M/s APCO CRFG JV
Village-Basantpur, Saitli, Tehsil-Modinagar Ghaziabad (UP),GHAZIABAD,201003
GHAZIABAD

Sub : Consent to Establish for New Unit/Expansion/Diversification under the provisions of Water (Prevention and control of pollution) Act, 1974 as amended and Air (Prevention and control of Pollution) Act, 1981 as amended.

Please refer to your Application Form No.- 5864334 dated - 28/08/2019. After examining the application with respect to pollution angle, Consent to Establish (CTE) is granted subject to the compliance of following conditions :

1. Consent to Establish is being issued for following specific details :

A- Site along with geo-coordinates :

B- Main Raw Material :

Main Raw Material Details		
Name of Raw Material	Raw Material Unit Name	Raw Material Quantity
20 mm stone Aggregates, Cement, Sand, & Water	Metric Tonnes/Day	

C- Product with capacity :

Product Detail	
Name of Product	Product Quantity
RMC-60M3/hr	0

D- By-Product if any with capacity :

By Product Detail			
Name of By Product	Unit Name	Licence Product Capacity	Install Product Capacity
Wash Waste	Metric Tonnes/Day	0.0025	0.0025

2. Water Requirement (in KLD) and its Source :

Source of Water Details		
Source Type	Name of Source	Quantity (KL/D)
Other	DOMESTIC	2.0

3. Quantity of effluent (In KLD) :

UTSAV SHARMA
Digitally signed by
UTSAV SHARMA
Date: 2019.10.02
06:45:50 +05'30'

Effluent Details	
Source Consumption	Quantity (KL/D)
Others(Washing)	0.0
Others(Plantation)	0.0
Domestic	2.0
Industrial	1.0
Others(Dust Suppression)	2.0

4. Fuel used in the equipment/machinery Name and Quantity (per day) :

Fuel Consumption Details		
Fuel	Consumption(tpd/kld)	Use
Others	0.2	DG Sets-250 KVA

5. For any change in above mentioned parameters, it will be mandatory to obtain Consent to Establish again. No further expansion or modification in the plant shall be carried out without prior approval of U.P. Pollution Control Board.
- For any change in above mentioned parameters, it will be mandatory to obtain Consent to Establish again. No further expansion or modification in the plant shall be carried out without prior approval of U.P. Pollution Control Board.
2. You are directed to furnish the progress of Establishment of plant and machinery, green belt, Effluent Treatment Plant and Air pollution control devices, by 10th day of completion of subsequent quarter in the Board.
3. Copy of the work order/purchase order, regarding instruction and supply of proposed Effluent Treatment Plant/Sewerage Treatment Plant /Air Pollution control System shall be submitted by the industry till 31/03/2023 to the Board.
4. Industry will not start its operation, unless CTO is obtained under water (Prevention and control of Pollution) Act, 1974 and Air (Prevention and control of Pollution) Act, 1981 from the Board.
5. It is mandatory to submit Air and Water consent Application, complete in all respect, four months before start of operation, to the U.P. Pollution Control Board.
6. Legal action under water (Prevention and control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981 may be initiated against the industry With out any prior information, in case of non compliance of above conditions.

Specific Conditions:

1. This Consent to Establish is being granted to M/s APCO CRFG JV, Village-Basantpur, Saitli, Tehsil-Modinagar Ghaziabad for its unit for establishment of an industry at Village-Basantpur, Saitli, Tehsil-Modinagar Ghaziabad for RMC-60M3/hr ONLY. This Consent to Establish will be VOID if there is any change in above mentioned address or product. The applicant shall make an application along with prescribed fee for trail consent(CTO) at least 30 days before the operation of unit.
2. This Consent is valid for the Establishment of unit only. The industry can only manufacture products, at the rate of production as mentioned in consent order. In case of any change in production capacity, process, raw materials use etc. the industry will have to intimate the Board. For any enhancement of the above, fresh Consent to Establish has to be obtained from U.P. State Pollution Control Board.
3. Industry shall comply with various Waste Management Rules as notified by MoEf&CC i.e. Plastic Waste Management Rules, 2016, Solid Waste Management Rules, 2016, Hazardous and Other Wastes (Management and Transboundary) Rules, 2016, E-waste (Management) Rules, 2016, Construction and Demolition Waste Management Rules, 2016.
4. Industry shall ensure adequate plantation and green belt within its premises. Green cover shall be in compliance of approved map from concerned Authority.
5. Industry shall ensure that industrial effluent is discharged from approved outlet and only after treatment in effluent treatment plant (as per proposal).
6. Under the Noise Pollution (Regulation and Control) Rule 2000, the industry shall take adequate measures for control of noise from its own sources within the premises so as to maintain ambient air quality standards in respect of noise to less than 75 dB(A) during day time and 70 dB(A)
7. Industry shall abide by directions given by Hon'ble Supreme Court, High Court, National Green Tribunals, Central Pollution Control Board and Uttar Pradesh Pollution Control Board for protection and safeguard of environment from time to time.
8. Prior to abstraction, industry shall obtain a No Objection Certificate from Central Ground Water Authority for abstraction of ground water.
9. The industry shall provide adequate arrangement for fighting the accidental leakages/discharge of any air pollutant/gas/liquid from the vessel, machinery etc. which are likely to cause fire hazard including environmental pollution.
10. The industry shall adhere to general standards terms and conditions of Water/Air Acts and compliance of Environment standards as per Environment (protection) Act 1986.
11. Industry shall submit first compliance report with respect to conditions imposed within 30 days of issue of this permission.
12. Industry shall develop green belt in accordance with Government Order 07/55-022018/09(writ)/2016 dated 26/02/2018 and UPPCB Office order issued vide letter no. H16405/220/2018/02 dated 16/02/2018
13. Industry shall ensure carbon offsetting as per Government Order (Environment Department) issued vide letter no. H17259/ 183/55-2-2018/09(writ)/2016 dated 15.03.2018.
14. A good house keeping shall be maintained both within the factory and in the premises. All hoods, pipes, valves, sewers and drains shall be leak proof. Floor washings shall be admitted into the effluent collection system only and shall not be allowed to find their way into storm drains or open areas.
15. Separate power connection with energy meter shall be provided for the Pollution Control Equipments and record of power consumption and chemicals consumption for the operation of pollution control equipment shall be maintained separately.
16. The applicant shall furnish to the visiting officer and / or the Board any information regarding the construction, installation or operation of the effluent treatment system / air pollution control equipment / secured storage area of Hazardous Waste and such other particulars as may be pertinent for preventing and controlling pollution.
17. The industry shall comply with ambient air quality standards of SO₂ - 80 g/m³; NO_x - 80 g/m³, PM_{2.5} - 60 g/m³ ; PM₁₀ – 100 g/m³ ; and other parameters as notified by MoEF & CC, GOI vide notification No.GSR 826(E), dated 16.11.2009 during operational phase of the project.
18. The industry shall provide & operate the following dust containment / suppression measures to comply with standards prescribed by the Board. a) Shall construct wind breaking wall all around the periphery of the site. b) Shall install machinery in a closed shed. c) Shall provide bag filter to mitigate fugitive dust emissions from process section and house the bag filter in closed shed. d) Shall store all the raw materials & products in closed sheds only. e) Shall regularly undertake cleaning & wetting of ground at your premises. f) Shall provide & operate water sprinklers at all dust emanating sources.
19. Concealing the factual data or submission of false information / fabricated data and failure to comply with any of the conditions mentioned in this order may result in withdrawal of this order and attract action under the provisions of relevant pollution control Acts.

20. The industry is liable to pay compensation for any environmental damage caused by it, as fixed by the Hon'ble Supreme Court, High Court, National Green Tribunal, Central Pollution Control Board and Uttar Pradesh Pollution Control Board.

21. The Board reserves its right to modify above conditions or stipulate any additional conditions including revocation of this order, in the interest of environment protection. In case of violation of above mentioned conditions or any public complaint the CTE shall be withdrawn.

Please note that consent to Establish will be revoked, in case of, non compliance of any of the above mentioned conditions. Board reserves its right for amendment or cancellation of any of the conditions specified above. Industry is directed to submit its first compliance report regarding above mentioned specific and general conditions till 29/10/2019 in this office. Ensure to submit the regular compliance report otherwise this Consent to Establish will be revoked.

UTSAV
SHARMA

Digitally signed by
UTSAV SHARMA
Date: 2019.10.02
06:46:09 +05'30'

REGIONAL OFFICER, GHAZIABAD.

Dated:- 29/09/2019

Copy To -

CEO-1, U.P. Pollution Control Board, Lucknow.

REGIONAL OFFICER, GHAZIABAD.



UTTAR PRADESH POLLUTION CONTROL BOARD

Validity Period :16/07/2019 To 31/03/2023

Ref No. - 61693/UPPCB/Ghaziabad(UPPCBRO)/CTE/GHAZIABAD/2019

Dated:- 08/08/2019

To ,

Shri ARVIND TINGLOO
M/s APCO CRFG JV
Sector 8, Vasundhara, GHAZIABAD,
GHAZIABAD

Sub : Consent to Establish for New Unit/Expansion/Diversification under the provisions of Water (Prevention and control of pollution) Act, 1974 as amended and Air (Prevention and control of Pollution) Act, 1981 as amended.

Please refer to your Application Form No.- 5593043 dated - 16/07/2019. After examining the application with respect to pollution angle, Consent to Establish (CTE) is granted subject to the compliance of following conditions :

- Consent to Establish is being issued for following specific details :

A- Site along with geo-coordinates :

B- Main Raw Material :

Main Raw Material Details		
Name of Raw Material	Raw Material Unit Name	Raw Material Quantity
20 mm Stone	Metric Tonnes/Day	
Aggregates	Metric Tonnes/Day	
Cement	Metric Tonnes/Day	
Sand	Metric Tonnes/Day	
Water	Metric Tonnes/Day	

C- Product with capacity :

Product Detail	
Name of Product	Product Quantity
RMC	5

D- By-Product if any with capacity :

By Product Detail			
Name of By Product	Unit Name	Licence Product Capacity	Install Product Capacity
Wash waste	Metric Tonnes/Day	0.0025	0.0025

- Water Requirement (in KLD) and its Source :

Source of Water Details		
Source Type	Name of Source	Quantity (KL/D)
Other	HTP	15.0

3. Quantity of effluent (In KLD) :

Effluent Details	
Source Consumption	Quantity (KL/D)
Domestic	2.0
Industrial	1.0
Others(Dust Suppression)	2.0
Others(Washing)	0.0
Others(Plantation)	0.0

4. Fuel used in the equipment/machinery Name and Quantity (per day) :

Fuel Consumption Details		
Fuel	Consumption(tpd/kld)	Use

5. For any change in above mentioned parameters, it will be mandatory to obtain Consent to Establish again. No further expansion or modification in the plant shall be carried out without prior approval of U.P. Pollution Control Board.

For any change in above mentioned parameters, it will be mandatory to obtain Consent to Establish again. No further expansion or modification in the plant shall be carried out without prior approval of U.P. Pollution Control Board.

2. You are directed to furnish the progress of Establishment of plant and machinery, green belt, Effluent Treatment Plant and Air pollution control devices, by 10th day of completion of subsequent quarter in the Board.
3. Copy of the work order/purchase order, regarding instruction and supply of proposed Effluent Treatment Plant/Sewerage Treatment Plant /Air Pollution control System shall be submitted by the industry till 31/03/2023 to the Board.
4. Industry will not start its operation, unless CTO is obtained under water (Prevention and control of Pollution) Act, 1974 and Air (Prevention and control of Pollution) Act, 1981 from the Board.
5. It is mandatory to submit Air and Water consent Application, complete in all respect, four months before start of operation, to the U.P. Pollution Control Board.
6. Legal action under water (Prevention and control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981 may be initiated against the industry With out any prior information, in case of non compliance of above conditions.

Specific Conditions:

1. This Consent to Establish is being granted to M/s Apco CRFG JV, Sector8, Vasundhara, Ghaziabad for its unit for establishment of an industry at Sector8, Vasundhara, Ghaziabad for RMC-60M3/hr ONLY. This Consent to Establish will be VOID if there is any change in above mentioned address or product. The applicant shall make an application along with prescribed fee for trail consent(CTO) at least 30 days before the operation of unit.
2. This Consent is valid for the Establishment of unit only. The industry can only manufacture products, at the rate of production as mentioned in consent order. In case of any change in production capacity, process, raw materials use etc. the industry will have to intimate the Board. For any enhancement of the above, fresh Consent to Establish has to be obtained from U.P. State Pollution Control Board.
3. Industry shall comply with various Waste Management Rules as notified by MoEf&CC i.e. Plastic Waste Management Rules, 2016, Solid Waste Management Rules, 2016, Hazardous and Other Wastes (Management and Transboundary) Rules, 2016, E-waste (Management) Rules, 2016, Construction and Demolition Waste Management Rules, 2016.
4. Industry shall ensure adequate plantation and green belt within its premises. Green cover shall be in compliance of approved map from concerned Authority.
5. Industry shall ensure that industrial effluent is discharged from approved outlet and only after treatment in effluent treatment plant (as per proposal).
6. Under the Noise Pollution (Regulation and Control) Rule 2000, the industry shall take adequate measures for control of noise from its own sources within the premises so as to maintain ambient air quality standards in respect of noise to less than 75 dB(A) during day time and 70 dB(A)
7. Industry shall abide by directions given by Hon'ble Supreme Court, High Court, National Green Tribunals, Central Pollution Control Board and Uttar Pradesh Pollution Control Board for protection and safeguard of environment from time to time.
8. Prior to abstraction, industry shall obtain a No Objection Certificate from Central Ground Water Authority for abstraction of ground water.
9. The industry shall provide adequate arrangement for fighting the accidental leakages/discharge of any air pollutant/gas/liquid from the vessel, machinery etc. which are likely to cause fire hazard including environmental pollution.
10. The industry shall adhere to general standards terms and conditions of Water/Air Acts and compliance of Environment standards as per Environment (protection) Act 1986.
11. Industry shall submit first compliance report with respect to conditions imposed within 30 days of issue of this permission.
12. Industry shall develop green belt in accordance with Government Order 07/55-022018/09(writ)/2016 dated 26/02/2018 and UPPCB Office order issued vide letter no. H16405/220/2018/02 dated 16/02/2018
13. Industry shall ensure carbon offsetting as per Government Order (Environment Department) issued vide letter no. H17259/ 183/55-2-2018/09(writ)/2016 dated 15.03.2018.
14. A good house keeping shall be maintained both within the factory and in the premises. All hoods, pipes, valves, sewers and drains shall be leak proof. Floor washings shall be admitted into the effluent collection system only and shall not be allowed to find their way into storm drains or open areas.
15. Separate power connection with energy meter shall be provided for the Pollution Control Equipments and record of power consumption and chemicals consumption for the operation of pollution control equipment shall be maintained separately.
16. The applicant shall furnish to the visiting officer and / or the Board any information regarding the construction, installation or operation of the effluent treatment system / air pollution control equipment / secured storage area of Hazardous Waste and such other particulars as may be pertinent for preventing and controlling pollution.
17. The industry shall comply with ambient air quality standards of SO₂ - 80 g/m³; NO_x - 80 g/m³, PM_{2.5} - 60 g/m³ ; PM₁₀ – 100 g/m³ ; and other parameters as notified by MoEF & CC, GOI vide notification No.GSR 826(E), dated 16.11.2009 during operational phase of the project.
18. The industry shall provide & operate the following dust containment / suppression measures to comply with standards prescribed by the Board. a) Shall construct wind breaking wall all around the periphery of the site. b) Shall install machinery in a closed shed. c) Shall provide bag filter to mitigate fugitive dust emissions from process section and house the bag filter in closed shed. d) Shall store all the raw materials & products in closed sheds only. e) Shall regularly undertake cleaning & wetting of ground at your premises. f) Shall provide & operate water sprinklers at all dust emanating sources.
19. Concealing the factual data or submission of false information / fabricated data and failure to comply with any of the conditions mentioned in this order may result in withdrawal of this order and attract action under the provisions of relevant pollution control Acts.

20. The industry is liable to pay compensation for any environmental damage caused by it, as fixed by the Hon'ble Supreme Court, High Court, National Green Tribunal, Central Pollution Control Board and Uttar Pradesh Pollution Control Board.

21. The Board reserves its right to modify above conditions or stipulate any additional conditions including revocation of this order, in the interest of environment protection. In case of violation of above mentioned conditions or any public complaint the CTE shall be withdrawn.

Please note that consent to Establish will be revoked, in case of, non compliance of any of the above mentioned conditions. Board reserves its right for amendment or cancellation of any of the conditions specified above. Industry is directed to submit its first compliance report regarding above mentioned specific and general conditions till 08/09/2019 in this office. Ensure to submit the regular compliance report otherwise this Consent to Establish will be revoked.

UTSAV Digitally signed by
UTSAV SHARMA
SHARMA Date: 2019.08.12
12:43:57 +05'30'

REGIONAL OFFICER, GHAZIABAD

Dated:- 08/08/2019

Copy To -

CEO-1, Uttar Pradesh Pollution Control Board, LUCKNOW

REGIONAL OFFICER, GHAZIABAD



U.P. Pollution Control Board

CONSENT ORDER

Ref No. -
66055/UPPCB/Ghaziabad(UPPCBRO)/CTO/air/GHAZIABAD/2019

Dated : 28/11/2019

To ,

Shri APCO CRFG JV
M/s APCO CRFG JV
Village-Basantpur, Saitli, Tehsil-Modinagar Ghaziabad (UP),GHAZIABAD,201003
GHAZIABAD

Sub : Consent under section 21/22 of the Air (Prevention and control of Pollution) Act, 1981 (as amended)
to M/s. APCO CRFG JV

Reference Application No. 5958420

Dated : 28/11/2019

1. With reference to the application for consent for emission of air pollutants from the plant of M/s APCO CRFG JV. under Air Act 1981. It is being authorised for said emissions, as per the standards, in environment, by the Board as per enclosed conditions .
2. This consent is valid for the period from 25/10/2019 to 31/07/2021 .
3. In spite of the conditions and provisions mentioned in this consent order UP Pollution Control Board reserves its right and powers to reconsider/amend any or all conditions under section 21 (6) of the Air (Prevention and Control of Pollution) Act, 1981 as amended.
This consent is being issued with the permission of competent authority .

For and on behalf of U.P. Pollution Control Board
Utsav Sharma Digitally signed
by Utsav Sharma
Date: 2019.11.29
22:34:49 +05'30'
REGIONAL OFFICER GHAZIABAD

**Enclosed : As above
(condition of consent):**

Copy to: CEO 1 U.P. POLLUTION CONTROL BOARD, LUCKNOW.

REGIONAL OFFICER GHAZIABAD

U.P. Pollution Control Board

Dated : 28/11/2019

CONDITIONS OF CONSENT

1. This consent is valid only for the approved production capacity of Readymix Cement Concrete – 60 cubic meter/day.
2. This consent is valid only for products and quantity mentioned above. Industry shall obtain prior approval before making any modification in product/ process /fuel/ plant machinery failing which consent would be deemed void.
- 3(a) The maximum rate of emission of flue gas should not be more than the emission norms for the stacks.

- 3(b) Air Pollution Source Details.

Air Pollution Source Details					
S.No	Air Pollution Source	Type of Fuel	Stack No.	Parameters	Height
1	DG set 250 KVA	HSD	01	Particulate Matter	To be maintain 3.5 m above roof

- 3(c) The emissions by various stacks into the environment should be as per the norms of the Board .

Emission Quality Details Detail			
S.No	Stack No	Parameter	Standard

4. Quantity of other pollutants should also be as per the norms prescribed by the Board/MOEF & CC/or otherwise mandatory .
5. The equipment for air pollution control system and monitoring ,as proposed by the industry and approved by the Board should be installed in their premises itself .
6. The modification or installation in the existing pollution control equipments should be done only by prior approval of Board .
7. The operation of air pollution control system and maintenance be done in such a way that the quantity of pollutants should be in accordance with the standards prescribed by the Board/MoEF & CC/or otherwise mandatory .
8. Unit should do provisions for fugitive emissions chimney/stack as per the norms of the Board/MOEF & CC/or otherwise mandatory .
9. The unit should submit the stack emissions monitoring report within one month from issuance of consent order along with the point wise compliance report of the consent order . Further quarterly monitoring report should be submitted .

Specific Conditions:

1. Unit should be operated in such a manner that it does not adversely affect the environment and the solid waste generated should be disposed in Eco friendly manner.
2. Any source of emission other than that mentioned in the Air consent seeking application will not be permitted by the Board.
3. Unit should ensure the operation of the air pollution control system (APCS) in such a manner that the air emission confirms with the standards prescribed under the E.P Act 1986 as amended.
4. This consent is valid only for products and quantity mentioned above. Industry shall obtain prior approval before making any modification in product/ process /fuel/ plant machinery failing which consent would be deemed void.
5. Unit shall abide by orders / directions issued by Hon'ble Supreme court Hon'ble High Court, Hon'ble National Green tribunal, Central Pollution Control Board and U.P Pollution Control Board for protection and safe guard of environment from time to time.
6. Unit shall submit quarterly monitoring reports of all stacks and ambient air quality from a certified / approved laboratory under E.P. Act 1986.
7. Unit shall comply with various provisions of Air (Prevention and Control of Pollution) Act 1981 as amended, Water (Prevention and Control of Pollution) Act 1974 as amended and all other applicable rules notified under E.P. Act 1986.
8. If the CPCB or UPPCB issues the Closure order against the industry this consent order stands automatically suspended for that period.
9. The unit shall obtain prior consent in the event of any addition of new emission generation sources such as- Boiler/ Furnace/ Heaters/ D.G. Sets or alteration of existing emission sources in accordance with section- 21/22 of air Act 1981 (as amended respectively).
10. For the development of the green belt the guidelines issued vide Board office order no. H10405/220/2018/02 Dt. 16-02-2018 shall be complied.
11. Unit shall submit the compliance of conditions within 01 month from receipt of this letter.
12. The board have right to modify any condition as & when require in compliance of any change in environmental guidelines and Hon'ble courts orders passed time to time.
13. Unit will provide CA certificate/balance sheet to verify the submitted consent fee within a week.
14. Unit shall comply with various Waste Management Rules as notified by Moef & CC i.e. .Plastic Waste Management Rules, 2016, Solid Waste Management Rules, 2016, Hazardous and Other Wastes (Management and Trans boundary) Rules,2016, E-waste (Management) Rules, 2016.
15. The consent fee submitted in this office, if inadequate shall be submitted by unit.
16. Unit shall install fixed sprinklers for suppression of dust during handling of materials before starting operation.
17. Unit shall comply with Environment (Prevention) amendment Rules, 2018.

Issued with the permission of competent authority .

For and on behalf of U.P. Pollution Control Board .

Utsav
Sharma

Digitally signed
by Utsav Sharma
Date: 2019.11.29
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REGIONAL OFFICER GHAZIABAD



U.P. Pollution Control Board

CONSENT ORDER

Ref No. - 70262/UPPCB/Ghaziabad(UPPCBRO)/CTO/water/GHAZIABAD/2019

Dated : 29/11/2019

To ,

Shri APCO CRFG JV
M/s APCO CRFG JV
Village-Basantpur, Saitli, Tehsil-Modinagar Ghaziabad (UP),GHAZIABAD,201003
GHAZIABAD

Sub : Consent under Section 25/26 of The Water (Prevention and control of Pollution) Act, 1974 (as amended) for discharge of effluent to M/s. APCO CRFG JV

Reference Application No :6283709

Dated :29/11/2019

1. For disposal of effluent into water body or drain or land under The Water (Prevention and control of Pollution) Act,1974 as amended (here in after referred as the act) M/s. APCO CRFG JV is hereby authorized by the board for discharge of their industrial effluent generated through ETP for irrigation/river through drain and disposal of domestic effluent through septic tank/soak pit subject to general and special conditions mentioned in the annexure ,in reference to their foresaid application .
2. This consent is valid for the period from 25/10/2019 to 31/07/2021 .
3. In spite of the conditions and provisions mentioned in this consent order UP Pollution Control Board reserves its right and powers to reconsider/amend any or all conditions under section 27(2) of the Water (Prevention and Control of Pollution) Act, 1974 as amended .

This consent is being issued with the permission of competent authority .

For and on behalf of U.P. Pollution Control Board

Utsav
Sharma

Digitally signed
by Utsav Sharma
Date: 2019.11.29
22:33:12 +05'30'

REGIONAL OFFICER GHAZIABAD

**Enclosed : As above
(condition of consent):**

Copy to: CEO 1 U.P. POLLUTION CONTROL BOARD, LUCKNOW.

REGIONAL OFFICER GHAZIABAD

U.P. POLLUTION CONTROL BOARD, LUCKNOW

Annexure to Consent issued to M/s.APCO CRFG JV vide

Consent Order No. 6283709/ Water

Dated : 29/11/2019

CONDITIONS OF CONSENT

1. This consent is valid only for the approved production capacity of Readymix Cement Concrete – 60 cubic meter/day.
2. The quantity of maximum daily effluent discharge should not be more than the following :

Effluent Discharge Details			
S.No	Kind of Effluent	Maximum daily discharge, KL/day	Treatment facility and discharge point
1	Domestic	For Irrigation purpose	Septic Tank
2	Industrial	Recycle in process after settling	Septic Tank

3. Arrangement should be made for collection of water used in process and domestic effluent separately in closed water supply system. The treated domestic and industrial effluent if discharged outside the premises, if meets at the end of final discharge point, arrangement should be made for measurement of effluent and for collecting its sample. Except the effluent informed in the application for consent no other effluent should enter in the said arrangements for collection of effluent. It should also be ensured that domestic effluent should not be discharged in storm water drain .
- 4(a) The domestic effluent should be treated in treatment plant so that the should be in conformity with the following norms dated treated effluent .

Domestic Effluent		
S.No	Parameter	Standard
1	Quantity of Discharge	1.5 KLD

- 4(b). The industrial effluent should be treated in treatment plant so that the treated effluent should be in conformity with the following norms. .

Industrial Effluent		
S.No	Parameter	Standard
1	Quantity of Discharge	Nil

5. Effluent generated in all the processes, bleed water, cooling effluent and the effluent generated from washing of floor and equipments etc should be treated before its disposal with treated industrial effluent so that it should be according to the norms prescribed under The Environment (Protection) Act, 1986 or otherwise mandatory .
6. The other pollutant for which norms have not been prescribed, the same should not be more than the norms prescribed for the water used in manufacturing process of the industry .
7. The method for collecting industrial and domestic effluent and its analysis should be as per legal Indian standards and its subsequent amendments/standards prescribed under The Environment (Protection) Act, 1986.
8. The treated domestic and industrial effluent be mixed (as per the provisions of Condition No. 2) and disposed of on one disposal point. This common effluent disposal point should have arrangement for flow meter/V Notch for measuring effluent and its log book be maintained .

Specific Conditions:

1. Unit shall provide the NOC from CGWA for extracting ground water within 02 month.
2. Unit shall comply the provisions of EP Act, 1986, Water Prevention and Control of Pollution) Act, 1974 as amended, Air (Prevention and Control of Pollution) Act, 1981 as amended.
3. Unit shall dispose the hazardous waste through authorized recyclers/TSDF.
4. Unit will provide CA certificate/balance sheet to verify the submitted consent fee within a week.
5. Unit shall comply the provisions of notification dated 07-10-2016 of Ministry of Water Resources, River Development and Ganga Conservation, GOI.
6. Unit shall abide by directions given by Hon'ble Supreme Court, High Court, National Green Tribunals, Central Pollution Control Board and Uttar Pradesh Pollution Control Board for protection and safeguard of environment from time to time.
7. This consent is valid only for products and quantity mentioned above. Industry shall obtain prior approval before making any modification in product /process /fuel/ plant machinery failing which consent would be deemed void.
8. Unit shall submit the compliance of conditions within 01 month from receipt of this letter.
9. Unit should not discharge any kind of industrial effluent. This consent is valid for only domestic discharge.
10. For the development of the green belt the guidelines issued vide Board office order no. H10405/220/2018/02 Dt. 16-02-2018 shall be complied.
11. The board have right to modify any condition as & when require in compliance of any change in environmental guidelines and Hon'ble courts orders passed time to time.
12. Unit shall comply with various Waste Management Rules as notified by Moef & CC i.e. Plastic Waste Management Rules, 2016, Solid Waste Management Rules, 2016, Hazardous and Other Wastes (Management and Trans boundary) Rules, 2016, E-waste (Management) Rules, 2016, Construction and Demolition Waste management Rules, 2016.
13. If the CPCB or UPPCB issues the Closure order against the unit this consent order stands automatically suspended for that period.
14. The consent fee submitted in this office, if inadequate shall be submitted by unit.
15. Unit shall install fixed sprinklers for suppression of dust during handling of materials before starting operation.
16. Unit shall comply with Environment (Prevention) amendment Rules, 2018.

Issued with the permission of competent authority .

For and on behalf of U.P. Pollution Control Board .

Utsav
Sharma

Digitally signed
by Utsav Sharma
Date: 2019.11.29
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REGIONAL OFFICER GHAZIABAD



U.P. Pollution Control Board

CONSENT ORDER

Ref No. - 64169/UPPCB/Ghaziabad(UPPCBRO)/CTO/air/GHAZIABAD/2019

Dated : 04/10/2019

To ,

Shri ARVIND TINGLOO
M/s APCO CRFG JV
Sector 8, Vasundhara, GHAZIABAD,
GHAZIABAD

Sub : Consent under section 21/22 of the Air (Prevention and control of Pollution) Act, 1981 (as amended) to M/s. APCO CRFG JV

Reference Application No. 5801199

Dated : 04/10/2019

1. With reference to the application for consent for emission of air pollutants from the plant of M/s APCO CRFG JV. under Air Act 1981. It is being authorised for said emissions, as per the standards, in environment, by the Board as per enclosed conditions .
2. This consent is valid for the period from 24/08/2019 to 31/03/2022 .
3. In spite of the conditions and provisions mentioned in this consent order UP Pollution Control Board reserves its right and powers to reconsider/amend any or all conditions under section 21 (6) of the Air (Prevention and Control of Pollution) Act, 1981 as amended.
This consent is being issued with the permission of competent authority .

For and on behalf of U.P. Pollution Control Board

UTSAV
SHARMA

Digitally signed by
UTSAV SHARMA
Date: 2019.10.04
16:34:21 +05'30'

REGIONAL OFFICER, GHAZIABAD.

**Enclosed : As above
(condition of consent):**

Copy to: CEO-1, U.P. Pollution Control Board, Lucknow.

REGIONAL OFFICER, GHAZIABAD.

U.P. Pollution Control Board

Dated : 04/10/2019

CONDITIONS OF CONSENT

1. This consent is valid only for the approved production capacity of RMC-60M3/hr.
2. This consent is valid only for products and quantity mentioned above. Industry shall obtain prior approval before making any modification in product/ process /fuel/ plant machinery failing which consent would be deemed void.
- 3(a) The maximum rate of emission of flue gas should not be more than the emission norms for the stacks.
- 3(b) Air Pollution Source Details.

Air Pollution Source Details					
S.No	Air Pollution Source	Type of Fuel	Stack No.	Parameters	Height
1	DG set 250 KVA	HSD	1	Particulate Matter	1.5 meter from roof top

- 3(c) The emissions by various stacks into the environment should be as per the norms of the Board .

Emission Quality Details Detail			
S.No	Stack No	Parameter	Standard

4. Quantity of other pollutants should also be as per the norms prescribed by the Board/MOEF & CC/or otherwise mandatory .
5. The equipment for air pollution control system and monitoring ,as proposed by the industry and approved by the Board should be installed in their premises itself .
6. The modification or installation in the existing pollution control equipments should be done only by prior approval of Board .
7. The operation of air pollution control system and maintenance be done in such a way that the quantity of pollutants should be in accordance with the standards prescribed by the Board/MoEF & CC/or otherwise mandatory .
8. Unit should do provisions for fugitive emissions chimney/stack as per the norms of the Board/MOEF & CC/or otherwise mandatory .
9. The unit should submit the stack emissions monitoring report within one month from issuance of consent order along with the point wise compliance report of the consent order . Further quarterly monitoring report should be submitted .

Specific Conditions:

1. This CTO is being granted to M/s APCO CRFG JV, Sector 8, Vasundhara, GHAZIABAD, for RMC-60M3/hr ONLY. This CTO will be VOID if there is any change in above mentioned address or product. The applicant shall make an application along with prescribed fee for renewal/trial consent(CTO) at least 30 days before the operation of unit.
2. The industry can only manufacture products, at the rate of production as mentioned in consent order. In case of any change in production capacity, process, raw materials use etc. the industry will have to intimate the Board. For any enhancement of the above, fresh Consent to Establish has to be obtained from U.P. State Pollution Control Board.
3. Industry shall comply with various Waste Management Rules as notified by MoEF&CC i.e. Plastic Waste Management Rules, 2016, Solid Waste Management Rules, 2016, Hazardous and Other Wastes (Management and Transboundary) Rules, 2016, E-waste (Management) Rules, 2016, Construction and Demolition Waste Management Rules, 2016.
4. Industry shall ensure adequate plantation and green belt within its premises. Green cover shall be in compliance of approved map from concerned Authority.
5. Industry shall ensure that industrial effluent is discharged from approved outlet and only after treatment in effluent treatment plant (as per proposal).
6. Under the Noise Pollution (Regulation and Control) Rule 2000, the industry shall take adequate measures for control of noise from its own sources within the premises so as to maintain ambient air quality standards in respect of noise to less than 75 dB(A) during day time and 70 dB(A)
7. Industry shall abide by directions given by Hon'ble Supreme Court, High Court, National Green Tribunals, Central Pollution Control Board and Uttar Pradesh Pollution Control Board for protection and safeguard of environment from time to time.
8. Prior to abstraction, industry shall obtain a No Objection Certificate from Central Ground Water Authority for abstraction of ground water.
9. The industry shall provide adequate arrangement for fighting the accidental leakages/discharge of any air pollutant/gas/liquid from the vessel, machinery etc. which are likely to cause fire hazard including environmental pollution.
10. The industry shall adhere to general standards terms and conditions of Water/Air Acts and compliance of Environment standards as per Environment (protection) Act 1986.
11. Industry shall submit first compliance report with respect to conditions imposed within 30 days of issue of this permission.
12. Industry shall develop green belt in accordance with Government Order 07/55-022018/09(writ)/2016 dated 26/02/2018 and UPPCB Office order issued vide letter no. H16405/220/2018/02 dated 16/02/2018
13. Industry shall ensure carbon offsetting as per Government Order (Environment Department) issued vide letter no. H17259/ 183/55-2-2018/09(writ)/2016 dated 15.03.2018.
14. A good house keeping shall be maintained both within the factory and in the premises. All hoods, pipes, valves, sewers and drains shall be leak proof. Floor washings shall be admitted into the effluent collection system only and shall not be allowed to find their way into storm drains or open areas.
15. Separate power connection with energy meter shall be provided for the Pollution Control Equipments and record of power consumption and chemicals consumption for the operation of pollution control equipment shall be maintained separately.
16. The applicant shall furnish to the visiting officer and / or the Board any information regarding the construction, installation or operation of the effluent treatment system / air pollution control equipment / secured storage area of Hazardous Waste and such other particulars as may be pertinent for preventing and controlling pollution.
17. The industry shall comply with ambient air quality standards of SO₂ - 80 g/m³; NO_x - 80 g/m³, PM_{2.5} - 60 g/m³ ; PM₁₀ – 100 g/m³ ; and other parameters as notified by MoEF & CC, GOI vide notification No.GSR 826(E), dated 16.11.2009 during operational phase of the project.
18. The industry shall provide & operate the following dust containment / suppression measures to comply with standards prescribed by the Board. a) Shall construct wind breaking wall all around the periphery of the site. b) Shall install machinery in a closed shed. c) Shall provide bag filter to mitigate fugitive dust emissions from process section and house the bag filter in closed shed. d) Shall store all the raw materials & products in closed sheds only. e) Shall regularly undertake cleaning & wetting of ground at your premises. f) Shall provide & operate water sprinklers at all dust emanating sources.
19. Concealing the factual data or submission of false information / fabricated data and failure to comply with any of the conditions mentioned in this order may result in withdrawal of this order and attract action under the provisions of relevant pollution control Acts.
20. The industry is liable to pay compensation for any environmental damage caused by it, as fixed by the Hon'ble Supreme Court, High Court, National Green Tribunal, Central Pollution Control Board and Uttar Pradesh Pollution Control Board.

21. The Board reserves its right to modify above conditions or stipulate any additional conditions including revocation of this order, in the interest of environment protection. In case of violation of above mentioned conditions or any public complaint the CTO shall be withdrawn.

Issued with the permission of competent authority .

For and on behalf of U.P. Pollution Control Board .

UTSAV

SHARMA

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UTSAV SHARMA
Date: 2019.10.04
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REGIONAL OFFICER, GHAZIABAD.



U.P. Pollution Control Board

CONSENT ORDER

Ref No. - 66056/UPPCB/Ghaziabad(UPPCBRO)/CTO/water/GHAZIABAD/2019

Dated : 29/09/2019

To ,

Shri ARVIND TINGLOO
M/s APCO CRFG JV
Sector 8, Vasundhara, GHAZIABAD,
GHAZIABAD

Sub : Consent under Section 25/26 of The Water (Prevention and control of Pollution) Act, 1974 (as amended) for discharge of effluent to M/s. APCO CRFG JV

Reference Application No :5958442

Dated :29/09/2019

1. For disposal of effluent into water body or drain or land under The Water (Prevention and control of Pollution) Act, 1974 as amended (here in after referred as the act) M/s. APCO CRFG JV is hereby authorized by the board for discharge of their industrial effluent generated through ETP for irrigation/river through drain and disposal of domestic effluent through septic tank/soak pit subject to general and special conditions mentioned in the annexure ,in reference to their foresaid application .
2. This consent is valid for the period from 24/08/2019 to 31/03/2022 .
3. In spite of the conditions and provisions mentioned in this consent order UP Pollution Control Board reserves its right and powers to reconsider/amend any or all conditions under section 27(2) of the Water (Prevention and Control of Pollution) Act, 1974 as amended .

This consent is being issued with the permission of competent authority .

For and on behalf of U.P. Pollution Control Board

Utsav
Sharma

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by Utsav Sharma
Date: 2019.10.22
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REGIONAL OFFICER, GHAZIABAD.

**Enclosed : As above
(condition of consent):**

Copy to: CEO-1, U.P. Pollution Control Board, Lucknow.

REGIONAL OFFICER, GHAZIABAD.

U.P. POLLUTION CONTROL BOARD, LUCKNOW

Annexure to Consent issued to M/s.APCO CRFG JV vide

Consent Order No. 5958442/ Water

Dated : 29/09/2019

CONDITIONS OF CONSENT

1. This consent is valid only for the approved production capacity of RMC-60M3/hr.
2. The quantity of maximum daily effluent discharge should not be more than the following :

Effluent Discharge Details			
S.No	Kind of Effluent	Maximum daily discharge,KL/day	Treatment facility and discharge point
1	Domestic	1.5 KLD	Septic Tank

3. Arrangement should be made for collection of water used in process and domestic effluent separately in closed water supply system. The treated domestic and industrial effluent if discharged outside the premises, if meets at the end of final discharge point, arrangement should be made for measurement of effluent and for collecting its sample. Except the effluent informed in the application for consent no other effluent should enter in the said arrangements for collection of effluent. It should also be ensured that domestic effluent should not be discharged in storm water drain .
- 4(a) The domestic effluent should be treated in treatment plant so that the should be in conformity with the following norms dated treated effluent .

Domestic Effluent		
S.No	Parameter	Standard
1	Total Suspended Solids	100 mg/l
2	BOD	30 mg/l
3	COD	250 mg/l
4	Oil & Grease	10 mg/l

- 4(b). The industrial effluent should be treated in treatment plant so that the treated effluent should be in conformity with the following norms. .

Industrial Effluent		
S.No	Parameter	Standard

5. Effluent generated in all the processes, bleed water, cooling effluent and the effluent generated from washing of floor and equipments etc should be treated before its disposal with treated industrial effluent so that it should be according to the norms prescribed under The Environment (Protection) Act,1986 or otherwise mandatory .
6. The other pollutant for which norms have not been prescribed, the same should not be more than the norms prescribed for the water used in manufacturing process of the industry .
7. The method for collecting industrial and domestic effluent and its analysis should be as per legal Indian standards and its subsequent amendments/standards prescribed under The Environment (Protection) Act, 1986.
8. The treated domestic and industrial effluent be mixed (as per the provisions of Condition No. 2) and disposed of on one disposal point. This common effluent disposal point should have arrangement for flow meter/V Notch for measuring effluent and its log book be maintained .

Specific Conditions:

1. This CTO is being granted to M/s APCO CRFG JV, Sector 8, Vasundhara, GHAZIABAD, for RMC-60M3/hr ONLY. This CTO will be VOID if there is any change in above mentioned address or product. The applicant shall make an application along with prescribed fee for renewal/trial consent(CTO) at least 30 days before the operation of unit.
2. The industry can only manufacture products, at the rate of production as mentioned in consent order. In case of any change in production capacity, process, raw materials use etc. the industry will have to intimate the Board. For any enhancement of the above, fresh Consent to Establish has to be obtained from U.P. State Pollution Control Board.
3. Industry shall comply with various Waste Management Rules as notified by MoEF&CC i.e. Plastic Waste Management Rules, 2016, Solid Waste Management Rules, 2016, Hazardous and Other Wastes (Management and Transboundary) Rules, 2016, E-waste (Management) Rules, 2016, Construction and Demolition Waste Management Rules, 2016.
4. Industry shall ensure adequate plantation and green belt within its premises. Green cover shall be in compliance of approved map from concerned Authority.
5. Industry shall ensure that industrial effluent is discharged from approved outlet and only after treatment in effluent treatment plant (as per proposal).
6. Under the Noise Pollution (Regulation and Control) Rule 2000, the industry shall take adequate measures for control of noise from its own sources within the premises so as to maintain ambient air quality standards in respect of noise to less than 75 dB(A) during day time and 70 dB(A)
7. Industry shall abide by directions given by Hon'ble Supreme Court, High Court, National Green Tribunals, Central Pollution Control Board and Uttar Pradesh Pollution Control Board for protection and safeguard of environment from time to time.
8. Prior to abstraction, industry shall obtain a No Objection Certificate from Central Ground Water Authority for abstraction of ground water.
9. The industry shall provide adequate arrangement for fighting the accidental leakages/discharge of any air pollutant/gas/liquid from the vessel, machinery etc. which are likely to cause fire hazard including environmental pollution.
10. The industry shall adhere to general standards terms and conditions of Water/Air Acts and compliance of Environment standards as per Environment (protection) Act 1986.
11. Industry shall submit first compliance report with respect to conditions imposed within 30 days of issue of this permission.
12. Industry shall develop green belt in accordance with Government Order 07/55-022018/09(writ)/2016 dated 26/02/2018 and UPPCB Office order issued vide letter no. H16405/220/2018/02 dated 16/02/2018
13. Industry shall ensure carbon offsetting as per Government Order (Environment Department) issued vide letter no. H17259/ 183/55-2-2018/09(writ)/2016 dated 15.03.2018.
14. A good house keeping shall be maintained both within the factory and in the premises. All hoods, pipes, valves, sewers and drains shall be leak proof. Floor washings shall be admitted into the effluent collection system only and shall not be allowed to find their way into storm drains or open areas.
15. Separate power connection with energy meter shall be provided for the Pollution Control Equipments and record of power consumption and chemicals consumption for the operation of pollution control equipment shall be maintained separately.
16. The applicant shall furnish to the visiting officer and / or the Board any information regarding the construction, installation or operation of the effluent treatment system / air pollution control equipment / secured storage area of Hazardous Waste and such other particulars as may be pertinent for preventing and controlling pollution.
17. The industry shall comply with ambient air quality standards of SO₂ - 80 g/m³; NO_x - 80 g/m³, PM_{2.5} - 60 g/m³ ; PM₁₀ – 100 g/m³ ; and other parameters as notified by MoEF & CC, GOI vide notification No.GSR 826(E), dated 16.11.2009 during operational phase of the project.
18. The industry shall provide & operate the following dust containment / suppression measures to comply with standards prescribed by the Board. a) Shall construct wind breaking wall all around the periphery of the site. b) Shall install machinery in a closed shed. c) Shall provide bag filter to mitigate fugitive dust emissions from process section and house the bag filter in closed shed. d) Shall store all the raw materials & products in closed sheds only. e) Shall regularly undertake cleaning & wetting of ground at your premises. f) Shall provide & operate water sprinklers at all dust emanating sources.
19. Concealing the factual data or submission of false information / fabricated data and failure to comply with any of the conditions mentioned in this order may result in withdrawal of this order and attract action under the provisions of relevant pollution control Acts.
20. The industry is liable to pay compensation for any environmental damage caused by it, as fixed by the Hon'ble Supreme Court, High Court, National Green Tribunal, Central Pollution Control Board and Uttar Pradesh Pollution Control Board.

21. The Board reserves its right to modify above conditions or stipulate any additional conditions including revocation of this order, in the interest of environment protection. In case of violation of above mentioned conditions or any public complaint the CTO shall be withdrawn.

Issued with the permission of competent authority .

For and on behalf of U.P. Pollution Control Board .

Utsav
Sharma

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Utsav Sharma
Date: 2019.10.22
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REGIONAL OFFICER, GHAZIABAD.

**UTTAR PRADESH POLLUTION CONTROL BOARD****Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010****Phone:0522-2720828,2720831, Fax:0522-2720764, Email: info@uppcb.com, Website: www.uppcb.com****Validity Period :11/11/2020 To 31/07/2025****Ref No. - 110378/UPPCB/Ghaziabad(LAB)/CTE/GHAZIABAD/2020 Dated:- 02/12/2020****To ,****Shri SUMENDU DUTTA****M/s MS LARSEN TOUBRO LIMITED****khasra - 172/1, Pargana - jallalabad, Village- Yusufpur, Manoutta, Modinagar, Ghazibad, Uttar
Pardesh, GHAZIABAD,
GHAZIABAD****Sub : Consent to Establish for New Unit/Expansion/Diversification under the provisions of
Water (Prevention and control of pollution) Act, 1974 as amended and Air (Prevention
and control of Pollution) Act, 1981 as amended.**

Please refer to your Application Form No.- 10095948 dated - 11/11/2020. After examining the application with respect to pollution angle, Consent to Establish (CTE) is granted subject to the compliance of following conditions :

1. Consent to Establish is being issued for following specific details :

A- Site along with geo-coordinates :

B- Main Raw Material :

Main Raw Material Details		
Name of Raw Material	Raw Material Unit Name	Raw Material Quantity
cement	Metric Tonnes/Day	53574.8
10 mm	Metric Tonnes/Day	56535.2
20 mm	Metric Tonnes/Day	84304.8
sand	Metric Tonnes/Day	93303.2
Admixture 1	Metric Tonnes/Day	404.8
Admixture 2	Metric Tonnes/Day	5.6
Micro Silica	Metric Tonnes/Day	1794.4
Fibre	Metric Tonnes/Day	45.2

C- Product with capacity :

Product Detail	
Name of Product	Product Quantity
Ready Mixed Concrete	36000

D- By-Product if any with capacity :

By Product Detail			
Name of By Product	Unit Name	Licence Product Capacity	Install Product Capacity
NA	Metric Tonnes/Day	00	00

2. Water Requirement (in KLD) and its Source :

Source of Water Details		
Source Type	Name of Source	Quantity (KL/D)
Other	STP Treated Water	46.0

3. Quantity of effluent (In KLD) :

Effluent Details	
Source Consumption	Quantity (KL/D)
Domestic	1.0

4. Fuel used in the equipment/machinery Name and Quantity (per day) :

Fuel Consumption Details		
Fuel	Consumption(tpd/kld)	Use
Diesel	0.36	DG SET 1000 KVA & 250 KVA

5. For any change in above mentioned parameters, it will be mandatory to obtain Consent to Establish again. No further expansion or modification in the plant shall be carried out without prior approval of U.P. Pollution Control Board.

For any change in above mentioned parameters, it will be mandatory to obtain Consent to Establish again. No further expansion or modification in the plant shall be carried out without prior approval of U.P. Pollution Control Board.

2. You are directed to furnish the progress of Establishment of plant and machinery, green belt, Effluent Treatment Plant and Air pollution control devices, by 10th day of completion of subsequent quarter in the Board.
3. Copy of the work order/purchase order, regarding instruction and supply of proposed Effluent Treatment Plant/Sewerage Treatment Plant /Air Pollution control System shall be submitted by the industry till 31/07/2025 to the Board.
4. Industry will not start its operation, unless CTO is obtained under water (Prevention and control of Pollution) Act, 1974 and Air (Prevention and control of Pollution)Act, 1981 from the Board.
5. It is mandatory to submit Air and Water consent Application,complete in all respect, four months before start of operation, to the U.P. Pollution Control Board.
6. Legal action under water (Prevention and control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act,1981 may be initiated against the industry With out any prior information,in case of non compliance of above conditions.

Specific Conditions:

1. Industry shall comply the provisions of EP Act, 1986, Water (Prevention and Control of Pollution) Act, 1974 as amended, Air (Prevention and Control of Pollution) Act, 1981 as amended.
2. Industry shall dispose the hazardous waste through authorized recyclers/TSDF.
3. Industry shall comply the provisions of notification dt. 07-10-2016 of Ministry of Water Resources, River Development and Ganga Conservation GOI. Industry shall comply the order passed by Hon'ble NGT time to time.
4. This consent to establish is valid for establishment of RMC readymix- 36000 MTM.
5. Industry shall not start production without prior consent of the board.
6. All construction activities shall be according to authority guidelines.
7. The dust emission from the construction sites will be completely controlled and all precautions will be taken in that behalf.
8. Unit will put tarpaulin scaffolding around the area of construction and the building for effective and efficient control of dust emission generated during construction of the project.
9. Storage of any construction material particularly sand will not be done on any part of street and roads in the projects area.
10. The construction material of any kind stored on site will be fully covered in all respect so that it does not disperse in the air in any form
11. All the construction material & debris will be carried in trucks or vehicles which are fully covered and protected so as to ensure that the construction debris or construction material does not get dispersed into the air or atmosphere in any form whatsoever.
12. The vehicles carrying construction debris or construction material of any kind will be cleaned before it is permitted to ply on the road after unloading of such material.
13. Every worker working on the construction site and involved in loading, unloading and carriage of construction debris or construction material shall be provided with mask to prevent inhalation of dust particle.
14. All medical held, investigation and treatment will be provided to the workers involved in the construction of building and carrying of construction of building and carrying of construction debris or construction material related to dust emission.
15. The transportation of construction material and debris waste to construction site, dumping site or any other place will be carried out in accordance with rules.
16. Fixing of sprinklers and creation of green air barriers will be done to control fugitive dust emission and improve environment.
17. Wind breaking wall will be constructed around the construction site.
18. For the development of the green belt the guidelines issued vide Board office order no. H10405/220/2018/02 Dt. 16-02-2018 shall be complied.
19. Unit shall comply with various Waste Management Rules as notified by Moef & CC i.e. Plastic Waste Management Rules, 2016, Solid Waste Management Rules, 2016, Hazardous and Other Wastes (Management and Trans boundary) Rules, 2016, E-waste (Management) Rules, 2016, Construction and Demolition Waste management Rules, 2016.
20. The plant shall not use any ground water whatsoever for sprinkling/washing/mixing or any other industrial process. Only STP Treated water is permitted to be used

Please note that consent to Establish will be revoked, in case of, non compliance of any of the above mentioned conditions. Board reserves its right for amendment or cancellation of any of the conditions specified above. Industry is directed to submit its first compliance report regarding above mentioned specific and general conditions till 02/01/2021 in this office. Ensure to submit the regular compliance report otherwise this Consent to Establish will be revoked.

Utsav Sharma
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by Utsav Sharma
Date: 2020.12.02
10:16:51 -08'00'

REGIONAL OFFICER, GHAZIABAD

Dated:- 02/12/2020

Copy To -

CEO-1, UPPCB, LUCKNOW.

REGIONAL OFFICER, GHAZIABAD



UTTAR PRADESH POLLUTION CONTROL BOARD

Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

Phone:0522-2720828,2720831, Fax:0522-2720764, Email: info@uppcb.com, Website: www.uppcb.com

Validity Period :07/11/2020 To 31/07/2025

Ref No. - 109924/UPPCB/Ghaziabad(LAB)/CTE/GHAZIABAD/2020 Dated:- 02/12/2020

To ,

Shri SUMENDU DUTTA

M/s MS LARSEN TOUBRO LIMITED

RRTS P3 Lot1 Project, Khasra - 144/1, Asalat nagar, Opp to IGL filling station, Ghaziabad,
Uttar Pradesh,GHAZIABAD,201206
GHAZIABAD

Sub : Consent to Establish for New Unit/Expansion/Diversification under the provisions of Water (Prevention and control of pollution) Act, 1974 as amended and Air (Prevention and control of Pollution) Act, 1981 as amended.

Please refer to your Application Form No.- 10053523 dated - 07/11/2020. After examining the application with respect to pollution angle, Consent to Establish (CTE) is granted subject to the compliance of following conditions :

1. Consent to Establish is being issued for following specific details :

A- Site along with geo-coordinates :

B- Main Raw Material :

Main Raw Material Details		
Name of Raw Material	Raw Material Unit Name	Raw Material Quantity
cement	Metric Tonnes/Day	53574.8
10 mm	Metric Tonnes/Day	56535.2
20 mm	Metric Tonnes/Day	84304.8
Admixture 1	Metric Tonnes/Day	404.8
Admixture 2	Metric Tonnes/Day	5.6
Micro Silica	Metric Tonnes/Day	1794.4
Fibre	Metric Tonnes/Day	45.2
sand	Metric Tonnes/Day	93303.2

C- Product with capacity :

Product Detail	
Name of Product	Product Quantity
Ready Mixed Concrete	42000

D- By-Product if any with capacity :

By Product Detail			
Name of By Product	Unit Name	Licence Product Capacity	Install Product Capacity
NOT APPLICABLE	Metric Tonnes/Day	0	0

2. Water Requirement (in KLD) and its Source :

Utsav
Sharma

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by Utsav Sharma
Date: 2020.12.02
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Source of Water Details		
Source Type	Name of Source	Quantity (KL/D)
Other	STP Treated Water	46.0
Ground Water (within premises)	Handpump	1.5

3. Quantity of effluent (In KLD) :

Effluent Details	
Source Consumption	Quantity (KL/D)
Domestic	1.0

4. Fuel used in the equipment/machinery Name and Quantity (per day) :

Fuel Consumption Details		
Fuel	Consumption(tpd/kld)	Use
Diesel	360	Diesel used in DG Set

5. For any change in above mentioned parameters, it will be mandatory to obtain Consent to Establish again. No further expansion or modification in the plant shall be carried out without prior approval of U.P. Pollution Control Board.

For any change in above mentioned parameters, it will be mandatory to obtain Consent to Establish again. No further expansion or modification in the plant shall be carried out without prior approval of U.P. Pollution Control Board.

2. You are directed to furnish the progress of Establishment of plant and machinery, green belt, Effluent Treatment Plant and Air pollution control devices, by 10th day of completion of subsequent quarter in the Board.
3. Copy of the work order/purchase order, regarding instruction and supply of proposed Effluent Treatment Plant/Sewerage Treatment Plant /Air Pollution control System shall be submitted by the industry till 31/07/2025 to the Board.
4. Industry will not start its operation, unless CTO is obtained under water (Prevention and control of Pollution) Act, 1974 and Air (Prevention and control of Pollution) Act, 1981 from the Board.
5. It is mandatory to submit Air and Water consent Application, complete in all respect, four months before start of operation, to the U.P. Pollution Control Board.
6. Legal action under water (Prevention and control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981 may be initiated against the industry With out any prior information, in case of non compliance of above conditions.

Specific Conditions:

1. Industry shall comply the provisions of EP Act, 1986, Water (Prevention and Control of Pollution) Act, 1974 as amended, Air (Prevention and Control of Pollution) Act, 1981 as amended.
2. Industry shall dispose the hazardous waste through authorized recyclers/TSDF.
3. Industry shall comply the provisions of notification dt. 07-10-2016 of Ministry of Water Resources, River Development and Ganga Conservation GOI. Industry shall comply the order passed by Hon'ble NGT time to time.
4. This consent to establish is valid for establishment of RMC readymix- 42000 MTM.
5. Industry shall not start production without prior consent of the board.
6. All construction activities shall be according to authority guidelines.
7. The dust emission from the construction sites will be completely controlled and all precautions will be taken in that behalf.
8. Unit will put tarpaulin scaffolding around the area of construction and the building for effective and efficient control of dust emission generated during construction of the project.
9. Storage of any construction material particularly sand will not be done on any part of street and roads in the projects area.
10. The construction material of any kind stored on site will be fully covered in all respect so that it does not disperse in the air in any form
11. All the construction material & debris will be carried in trucks or vehicles which are fully covered and protected so as to ensure that the construction debris or construction material does not get dispersed into the air or atmosphere in any form whatsoever.
12. The vehicles carrying construction debris or construction material of any kind will be cleaned before it is permitted to ply on the road after unloading of such material.
13. Every worker working on the construction site and involved in loading, unloading and carriage of construction debris or construction material shall be provided with mask to prevent inhalation of dust particle.
14. All medical help, investigation and treatment will be provided to the workers involved in the construction of building and carrying of construction of building and carrying of construction debris or construction material related to dust emission.
15. The transportation of construction material and debris waste to construction site, dumping site or any other place will be carried out in accordance with rules.
16. Fixing of sprinklers and creation of green air barriers will be done to control fugitive dust emission and improve environment.
17. Wind breaking wall will be constructed around the construction site.
18. For the development of the green belt the guidelines issued vide Board office order no. H10405/220/2018/02 Dt. 16-02-2018 shall be complied.
19. Unit shall comply with various Waste Management Rules as notified by MoEF & CC i.e. Plastic Waste Management Rules, 2016, Solid Waste Management Rules, 2016, Hazardous and Other Wastes (Management and Trans boundary) Rules, 2016, E-waste (Management) Rules, 2016, Construction and Demolition Waste management Rules, 2016.
20. The plant shall not use any ground water whatsoever for sprinkling/washing/mixing or any other industrial process. Only STP Treated water is permitted to be used

Please note that consent to Establish will be revoked, in case of, non compliance of any of the above mentioned conditions. Board reserves its right for amendment or cancellation of any of the conditions specified above. Industry is directed to submit its first compliance report regarding above mentioned specific and general conditions till 02/01/2021 in this office. Ensure to submit the regular compliance report otherwise this Consent to Establish will be revoked.

Utsav Sharma
Digitally signed
by Utsav Sharma
Date: 2020.12.02
10:14:08 -08'00'

Regional Officer, Ghaziabad

Dated:- 02/12/2020

Copy To -

CEO-1, UPPCB, Lucknow.

Regional Officer, Ghaziabad

**UTTAR PRADESH POLLUTION CONTROL BOARD****Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010****Phone:0522-2720828,2720831, Fax:0522-2720764, Email: info@uppcb.com, Website: www.uppcb.com****Validity Period :08/10/2020 To 31/12/2021****Ref No. - 104413/UPPCB/Meerut(UPPCBRO)/CTE/MEERUT/2020 Dated:- 08/10/2020****To ,**

Shri K BHAWANI

M/s Larsen and Toubro Limited

Larsen and Toubro Limited, Khasra No 1024/1, Sector 4C, Shatabdi Nagar,

Rithani, Meerut, MEERUT, 250001

MEERUT

Sub : Consent to Establish for New Unit/Expansion/Diversification under the provisions of Water (Prevention and control of pollution) Act, 1974 as amended and Air (Prevention and control of Pollution) Act, 1981 as amended.

Please refer to your Application Form No.- 9564683 dated - 17/09/2020. After examining the application with respect to pollution angle, Consent to Establish (CTE) is granted subject to the compliance of following conditions :

1. Consent to Establish is being issued for following specific details :

A- Site along with geo-coordinates : NA

B- Main Raw Material :

Main Raw Material Details		
Name of Raw Material	Raw Material Unit Name	Raw Material Quantity
Cement(OPC,PPC,PSC),Fly ash,Silica,Admixture,Biporlar, 20MM Ag,10MM Ag,Natural sand,Water	Metric Tonnes/Day	350

C- Product with capacity :

Product Detail	
Name of Product	Product Quantity
Ready Mix Concrete Plant 350 Cubic meter/day	350

D- By-Product if any with capacity :

By Product Detail			
Name of By Product	Unit Name	Licence Product Capacity	Install Product Capacity
NA	Metric Tonnes/Day	350	350

2. Water Requirement (in KLD) and its Source :

Source of Water Details		
Source Type	Name of Source	Quantity (KL/D)
Ground Water (within premises)	Pump	5.0

3. Quantity of effluent (In KLD) :

Effluent Details	
Source Consumption	Quantity (KL/D)
Domestic	1.0
Process	4.0

4. Fuel used in the equipment/machinery Name and Quantity (per day) :

Fuel Consumption Details		
Fuel	Consumption(tpd/kld)	Use

5 For any change in above mentioned parameters, it will be mandatory to obtain Consent to Establish again. No further expansion or modification in the plant shall be carried out without prior approval of U.P. Pollution Control Board.

For any change in above mentioned parameters, it will be mandatory to obtain Consent to Establish again. No further expansion or modification in the plant shall be carried out without prior approval of U.P. Pollution Control Board.

2. You are directed to furnish the progress of Establishment of plant and machinery, green belt, Effluent Treatment Plant and Air pollution control devices, by 10th day of completion of subsequent quarter in the Board.
3. Copy of the work order/purchase order, regarding instruction and supply of proposed Effluent Treatment Plant/Sewerage Treatment Plant /Air Pollution control System shall be submitted by the industry till 31/12/2021 to the Board.
4. Industry will not start its operation, unless CTO is obtained under water (Prevention and control of Pollution) Act, 1974 and Air (Prevention and control of Pollution) Act, 1981 from the Board.
5. It is mandatory to submit Air and Water consent Application, complete in all respect, four months before start of operation, to the U.P. Pollution Control Board.
6. Legal action under water (Prevention and control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981 may be initiated against the industry With out any prior information, in case of non compliance of above conditions.

Specific Conditions:

- 1- Proper tree plantation should be done in the premises.
- 2-DG Set exhaust of 250 KVA DG Set should be within limits prescribed by Board.
- 3-This CTE order is applicable only for Ready Mix Concrete Plant only.
- 4-Ensure the Compliance of Directions given by the Board time to time.
- 5-Ensure the covered of raw material used by the industry.
- 6-Ensure the water sprinkling on raw materials time to time so that suspended particles should not be dispersed in the atmosphere.
- 7-The proposed Plant shall submit a Bank Guarantee of Rs. 200000/- in compliance of air pollution within 01 month.
- 8-Proposed Unit shall submit NOC from CGWA for water abstraction before starting up of unit.
- 9-No process effluent shall be discharged.
- 10-Ensure the Compliance of Air pollution generated from loading or unloading of raw materials and others.
- 11-compliance of CTE shall be submitted prior obtaining of CTO.
- 12-Ensure the establishment of Anti Smog Gun as per proposal.

Please note that consent to Establish will be revoked, in case of, non compliance of any of the above mentioned conditions. Board reserves its right for amendment or cancellation of any of the conditions specified above. Industry is directed to submit its first compliance report regarding above mentioned specific and general conditions till 08/11/2020 in this office. Ensure to submit the regular compliance report otherwise this Consent to Establish will be revoked.

YOGENDRA KUMAR
 Digitally signed by
 YOGENDRA KUMAR
 Date: 2020.10.08
 17:28:58 +05'30'
RO,UPPCB,MEERUT

Copy To -

Dated:- 08/10/2020

YOGENDR
A KUMAR
RO,UPPCB,MEERUT

Digitally signed by
YOGENDRA KUMAR
Date: 2020.10.08
17:29:06 +05'30'



UTTAR PRADESH POLLUTION CONTROL BOARD

Validity Period :20/08/2020 To 31/12/2021

Ref No. - 99064/UPPCB/Meerut(UPPCBRO)/CTE/MEERUT/2020

Dated:- 20/08/2020

To ,

Shri PURAN SINGH DANGWAL
M/s LARSEN AND TOUBRO LIMITED
Sector 4C, Shatabdinagar, MEERUT, 250001
MEERUT

Sub : Consent to Establish for New Unit/Expansion/Diversification under the provisions of Water (Prevention and control of pollution) Act, 1974 as amended and Air (Prevention and control of Pollution) Act, 1981 as amended.

Please refer to your Application Form No.- 9076804 dated - 30/07/2020. After examining the application with respect to pollution angle, Consent to Establish (CTE) is granted subject to the compliance of following conditions :

1. Consent to Establish is being issued for following specific details :

A- Site along with geo-coordinates : NA

B- Main Raw Material :

Main Raw Material Details		
Name of Raw Material	Raw Material Unit Name	Raw Material Quantity
Cement(OPC,PPC,PSC),Fly ash,Silica,Admixture,Biporlar, 20MM Ag,10MM Ag,Natural sand,Water	Cubic Meters/Day	150

C- Product with capacity :

Product Detail	
Name of Product	Product Quantity
Ready Mix Concrete Plant 150 Cubic meter/day	150

D- By-Product if any with capacity :

By Product Detail			
Name of By Product	Unit Name	Licence Product Capacity	Install Product Capacity
NA	Cubic Meters/Day	150	150

2. Water Requirement (in KLD) and its Source :

Source of Water Details		
Source Type	Name of Source	Quantity (KL/D)
Ground Water (within premises)	Pump	5.0

3. Quantity of effluent (In KLD) :

Effluent Details	
Source Consumption	Quantity (KL/D)
Domestic	1.0
Process	4.0

4. Fuel used in the equipment/machinery Name and Quantity (per day) :

Fuel Consumption Details		
Fuel	Consumption(tpd/kld)	Use
Diesel	100	01 DG Set 250 KVA

5. For any change in above mentioned parameters, it will be mandatory to obtain Consent to Establish again. No further expansion or modification in the plant shall be carried out without prior approval of U.P. Pollution Control Board.
- For any change in above mentioned parameters, it will be mandatory to obtain Consent to Establish again. No further expansion or modification in the plant shall be carried out without prior approval of U.P. Pollution Control Board.
2. You are directed to furnish the progress of Establishment of plant and machinery, green belt, Effluent Treatment Plant and Air pollution control devices, by 10th day of completion of subsequent quarter in the Board.
3. Copy of the work order/purchase order, regarding instruction and supply of proposed Effluent Treatment Plant/Sewerage Treatment Plant /Air Pollution control System shall be submitted by the industry till 31/12/2021 to the Board.
4. Industry will not start its operation, unless CTO is obtained under water (Prevention and control of Pollution) Act, 1974 and Air (Prevention and control of Pollution) Act, 1981 from the Board.
5. It is mandatory to submit Air and Water consent Application, complete in all respect, four months before start of operation, to the U.P. Pollution Control Board.
6. Legal action under water (Prevention and control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981 may be initiated against the industry With out any prior information, in case of non compliance of above conditions.

Specific Conditions:

- 1- Proper tree plantation should be done in the premises.
- 2-DG Set exhaust of 250 KVA DG Set should be within limits prescribed by Board.
- 3-This CTE order is applicable only for Ready Mix Concrete Plant only.
- 4-Ensure the Compliance of Directions given by the Board time to time.
- 5-Ensure the covered of raw material used by the industry.
- 6-Ensure the water sprinkling on raw materials time to time so that suspended particles should not be dispersed in the atmosphere.
- 7-The proposed Plant shall submit a Bank Guarantee of Rs. 100000/- in compliance of air pollution within 15 days.
- 8-Proposed Unit shall submit NOC from CGWA for water abstraction before starting up of unit.
- 9-No process effluent shall be discharged.
- 10-Ensure the Compliance of Air pollution generated from loading or unloading of raw materials and others.
- 11-compliance of CTE shall be submitted prior obtaining of CTO.

Please note that consent to Establish will be revoked, in case of, non compliance of any of the above mentioned conditions. Board reserves its right for amendment or cancellation of any of the conditions specified above. Industry is directed to submit its first compliance report regarding above mentioned specific and general conditions till 20/09/2020 in this office. Ensure to submit the regular compliance report otherwise this Consent to Establish will be revoked.

YOGENDRA
KUMAR
RO,UPPCB,MEERUT

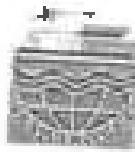
Digitally signed by
YOGENDRA KUMAR
Date: 2020.08.20 16:43:38
+05'30'

Dated:- 20/08/2020

Copy To -

YOGENDR
A KUMAR
RO,UPPCB,MEERUT

Digitally signed by
YOGENDRA KUMAR
Date: 2020.08.20
16:43:54 +05'30'



UTTAR PRADESH POLLUTION CONTROL BOARD
 Building, No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010
 Phone: 0522-2720828, 2720831. Fax: 0522-2720764, E-mail: info@uppcb.com, Website: www.uppcb.com

CONSENT ORDER

Ref No. :
 107767/UPPCB/Meerut(UPPCBRO/CTO/water/
 MEERUT/2020

Date: 29/10/2020

To,

Shri SANJAY SINGH GANWAR
 M/s Larsen and Toubro Limited
 Larsen and Toubro Limited, Khazra No 1024/1, Sector 4C, Shaheed
 Nagar, Rithani, Meerut, MEERUT, 250001. MEERUT, 250001
 MEERUT

Sub : Consent under Section 25/26 of The Water (Prevention and control of Pollution) Act, 1974
 (as amended) for discharge of effluent to M/s. Larsen and Toubro Limited

Reference Application No : 9866/370

Date: 29/10/2020

1. For disposal of effluent into water body or drain or land under The Water (Prevention and control of Pollution) Act, 1974 as amended (here in after referred as the act) M/s. Larsen and Toubro Limited is hereby authorized by the board for discharge of their industrial effluent generated through ETP for irrigation/river through drain and disposal of domestic effluent through septic tank/soak pit subject to general and special conditions mentioned in the annexure in reference to their foresaid application.
2. This consent is valid for the period from 29/10/2020 to 31/12/2023.
3. In spite of the conditions and provisions mentioned in this consent order UP Pollution Control Board reserves its right and powers to reconsider/amend any or all conditions under section 27(2) of the Water (Prevention and Control of Pollution) Act, 1974 as amended.

This consent is being issued with the permission of competent authority.

YOGENDRA KUMAR Deputy Secretary
 YOGENDRA KUMAR
 0522-2720828
 107767-4530

For and on behalf of U.P. Pollution Control Board

ROUUPCB, MEERUT

Enclosed : As above
 (condition of consent);

Copy to:

YOGENDRA KUMAR Deputy Secretary
 YOGENDRA KUMAR
 0522-2720828
 107767-4530
 ROUPPCB, MEERUT

U.P. POLLUTION CONTROL BOARD, LUCKNOW

Annexure to Consent issued to M/s. Lumen and Techpro Limited vide

Consent Order No. 58663/2017 Water

Dated : 29/10/2020

CONDITIONS OF CONSENT

1. This consent is valid only for the approved production capacity of Ready Mix Concrete Plant -500 Cubic meter/day.
2. The quantity of maximum daily effluent discharge should not be more than the following :

Effluent Discharge Details			
S.No	Kind of Effluent	Maximum daily discharge KL/day	Treatment facility and discharge point
1	Domestic	1	Septic Tank
2	Industrial	0	Septic Tank

3. Arrangement should be made for collection of water used in process and domestic effluent separately in closed water supply system. The treated domestic and industrial effluent if discharged outside the premises, if needs at the end of final discharge point, arrangement should be made for measurement of effluent and for collecting its sample. Except the effluent informed in the application for consent no other effluent should enter in the said arrangements for collection of effluent. It should also be ensured that domestic effluent should not be discharged in storm water drain.
- 4(a) The domestic effluent should be treated in treatment plant so that the should be in conformity with the following norms dated treated effluent.

Domestic Effluent		
S.No	Parameter	Standard
1	Total Suspended Solids	As per norms

- 4(b). The industrial effluent should be treated in treatment plant so that the treated effluent should be in conformity with the following norms.

Industrial Effluent		
S.No	Parameter	Standard
1	Total Suspended Solids	As per norms

5. Effluent generated in all the processes, bleed water, cooling effluent and the effluent generated from washing of floor and equipments etc should be treated before its disposal with treated industrial effluent so that it should be according to the norms prescribed under The Environment (Protection) Act, 1986 or otherwise mandatory.
6. The other pollutant for which norms have not been prescribed, the same should not be more than the norms prescribed for the water used in manufacturing process of the industry.
7. The method for collecting industrial and domestic effluent and its analysis should be as per legal Indian standards and its subsequent amendments/standards prescribed under The Environment (Protection) Act, 1986.
8. The treated domestic and industrial effluent be mixed (as per the provisions of Condition No. 2) and disposed of on one disposal point. This common effluent disposal point should have arrangement for flow meter/V Notch for measuring effluent and its log book be maintained.
9. The Unit will file the renewal application at least 2 months prior to the expiry of this Order.

Specific Conditions:

- 1- Proper tree plantation should be done in the premises.
- 2- DG Sets exhaust of 500, 250 KVA DG Sets should be within limits prescribed by Board.
- 3- This CTS order is applicable only for Ready Mix Concrete Plant only.
- 4- Ensure the Compliance of Directives given by the Board time to time.
- 5- Ensure the covered of raw material used by the industry.
- 6- Ensure the water sprinkling on raw materials time to time so that suspended particles should not be dispersed in the atmosphere.
- 7- The proposed Plant shall submit a Bank Guarantee of Rs. 200000/- in compliance of air pollution within 01 week.
- 8- Proposed Unit shall submit NOC from COWA for water abstraction before starting up of unit.
- 9- No process effluent shall be discharged.
- 10- Ensure the Compliance of Air pollution generated from loading or unloading of raw materials and others.
- 11- Ensure the establishment of Anti Smog Gun as per proposal.
- 12- compliance report shall be submitted every week to this office.

Issued with the permission of competent authority

YOGENDRA
KUMAR
For and on behalf of U.P. Pollution Control Board

Digitally signed by
YOGENDRA KUMAR
DN: cn=YOGENDRA KUMAR,
c=IN, o=U.P. Pollution Control Board,
email=ykumar@uppcb.gov.in

RO,UPPCB,MEERUT

UTTAR PRADESH POLLUTION CONTROL BOARD
 Building, No TC-12V Vibhadi Khand, Gomti Nagar, Lucknow-226014
 Phone:0522-2730828,2730831, Fax:0522-2720764, Email: info@uppcb.com, Website: www.uppcb.com

CONSENT ORDER

Ref No. -
 107765/UPPCB/Meerut(UPPCBRO)/CTO/adv/MEERUT/2020

Dated : 29/10/2020

To,

Sri SANDAY SINGH GANWAR
 M/s Larsen and Toubro Limited
 Larsen and Toubro Limited, Khasra No 1024/1, Sector 4C, Shaubeli
 Nagar, Kithani, Meerut, MEERUT-250001, MEERUT-250001
 MEERUT

Subj : Consent under section 21(2) of the Air (Prevention and control of Pollution) Act, 1981 (as amended);
 to M/s. Larsen and Toubro Limited

Reference Application No. 9366200

Dated : 29/10/2020

1. With reference to the application for consent for emission of air pollutants from the plant of M/s. Larsen and Toubro Limited, under Air Act 1981. It is being authorised for said emissions, as per the standards, in environment, by the Board as per enclosed conditions.
 2. This consent is valid for the period from 29/10/2020 to 30/12/2023.
 3. In spite of the conditions and provisions mentioned in this consent order UP Pollution Control Board reserves its right and powers to reconsider/amend any or all conditions under section 21 (6) of the Air (Prevention and Control of Pollution) Act, 1981 as amended.
- This consent is being issued with the permission of competent authority.

YOGENDRA KUMAR Digitally signed by
YOGENDRA KUMAR
Date: 2020.10.29
16:33:40 +05'30'
 For and on behalf of U.P. Pollution Control Board

RO,UPPCB,MEERUT

Enclosed : As above
 (condition of consent);

Copy to:

YOGENDRA KUMAR Digitally signed by
YOGENDRA KUMAR
Date: 2020.10.29
16:33:40 +05'30'
 RO,UPPCB,MEERUT

U.P. Pollution Control Board

Date: 22/05/2024

CONDITIONS OF CONSENT

1. This consent is valid only for the approved production capacity of Ready Mix Concrete Plant -500 Cubic meter/day..
2. This consent is valid only for products and quantity mentioned above. Industry shall obtain prior approval before making any modification in product/ process /fact/ plant machinery failing which consent would be deemed void!
- 3(a) The maximum rate of emission of flue gas should not be more than the emission norms for the stacks,
- 3(b) Air Pollution Source Details.

Air Pollution Source Details					
S.No	Air Pollution Source	Type of Fuel	Stack No.	Parameters	Height
1	DG SET 500 and 250 KVA	Diesel	02	Particulate Matter	As per norms

- 3(c) The emissions by various stacks into the environment should be as per the norms of the Board.

Emission Quality Details			
S.No	Stack No	Parameter	Standard
1	02	Particulate Matter	As per norms

4. Quantity of other pollutants should also be as per the norms prescribed by the Board/MOEF & CC or otherwise mandatory.
5. The equipment for air pollution control system and monitoring, as proposed by the industry, and approved by the Board should be installed in their premises itself.
6. The modification or installation in the existing pollution control equipments should be done only after approval of Board.
7. The operation of air pollution control system and maintenance be done in such a way that the quantity of pollutants should be in accordance with the standards prescribed by the Board/MOEF & CC or otherwise mandatory.
8. Unit should do provisions for fugitive emissions chimney/stack as per the norms of the Board/MOEF & CC or otherwise mandatory.
9. The unit should submit the stack emissions monitoring report within one month from issuance of consent order along with the point wise compliance report of the consent order. Further quarterly monitoring report should be submitted.

The Unit will file the renewal application at least 2 months prior to the expiry of this Order. The Specific Conditions:

- 1- Proper tree plantation should be done in the premises.
- 2-DG Sets exhaust of 500, 250 KVA DG Sets should be within limits prescribed by Board.
- 3-This CTO (same in water certificate) order is applicable only for Ready Mix Concrete Plant only.
- 4-Ensure the Compliance of Directions given by the Board time to time.
- 5-Ensure the covered of raw material used by the industry.
- 6-Ensure the water sprinkling on raw materials time to time so that suspended particles should not be dispersed in the atmosphere.
- 7-The proposed Plant shall submit a Bank Guarantee of Rs. 200000/- in compliance of air pollution within 01 week.
- 8-Proposed Unit shall submit NOC from CCWA for water abstraction before starting up of unit.
- 9-No process effluent shall be discharged.
- 10-Ensure the Compliance of Air pollution generated from loading or unloading of raw materials and others.
- 11-Ensure the establishment of Anti Shock Gun as per proposal.
- 12-compliance report shall be submitted every week to this office.

Issued with the permission of competent authority.

YOGENDR
A KUMAR


Digitally signed by
YOGENDR A KUMAR
Date: 2020.10.29
18:10:31 +0530

For and on behalf of U.P. Pollution Control Board.

RO, U.P.C.B., MISHRA

Attachment-7

Monitoring Photographs

	 <p>Latitude: 28°45'28.41" Longitude: 77°29'38.54" Opposite KIET College Muradnagar (Ghaziabad), Pin Code-201208</p> <p>Date: 03-10-2020 Time: 12:34 PM</p>
Noise Monitoring by External Agency	Noise Monitoring by External Agency
	 <p>Latitude: 28°47'42.41" Longitude: 77°32'58.18" Opposite to Tollance Petrol Pump (Ghaziabad), Pin code: 201206</p> <p>Date: 17-11-2020 Time: 11:46 AM</p>
Air Quality Monitoring by External Agency	Air Quality Monitoring by External Agency
 <p>Latitude: 28°46'14.98" Longitude: 77°30'48.21" Opposite IOCL Petrol Pump, Muradnagar (Ghaziabad), Pin code-201208</p> <p>Date: 03-10-2020 Time: 12:33 PM</p>	
Noise Monitoring by External Agency	Air Quality Monitoring by External Agency



Noise Monitoring by External Agency



Noise Monitoring by External Agency



Air Quality Monitoring by External Agency



Air Quality Monitoring by External Agency



Noise Monitoring by External Agency



Air Quality Monitoring by External Agency



ARIHANT ANALYTICAL LABORATORY PVT. LTD.

(NABL Accredited Laboratory)

272, Phase-IV, Sec-57, HSIIDC, Kundli, Sonapat-131028 (Haryana)

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Website : www.aalkundli.com



TC-5826

TEST CERTIFICATE

Page 1 of 1

Issued To: M/s KEC International Limited,
Plot No.8, Sector-8, Adjacent to Vasundhara Farms,
Vasundhara, Sahibabad, Ghaziabad (UP)

Sample Description: Ambient Air Quality Monitoring

Date of Monitoring: 15/12/2020 to 16/12/2020

Nature of Work: Construction of elevated viaduct from start of elevated ramp near Sahibabad RRTS Station up to end of Ghaziabad RRTS Station, including all special spans and two nos. of elevated RRTS Station viz. Sahibabad and Ghaziabad (excluding Architectural Finishing & Roof Structure of Stations) of Delhi-Meerut Regional Rapid Transit System (RRTS) Corridor.

Report No. AAL ENV-20201216001

Date of Receiving: 16/12/2020

Date of Starting: 16/12/2020

Date of Completion: 19/12/2020

Date of Reporting: 19/12/2020

Sampling Done By: AAL

TEST RESULT

Sampling Details:

Type of Monitoring

Monitoring Procedure

Location of Sampling Point

Sampling Started on

Sampling Completed on

Actual Time of Sampling (Hrs)

Average flow Rate for particulate matter (m^3/min)

Total Volume of air sampled for particulate matter (m^3)

: Ambient Air Quality Monitoring

: As per IS-5182, P-14

: P-30 Near Sahibabad Sahji Mandi

: 12:30 PM (15/12/2020)

: 12:30 PM (16/12/2020)

: 24 Hrs.

: 1.15

: 1656

S. No. Test Parameters

Unit

Results

Limits NAAQS Monitoring & Analysis Guidelines Volume-I

Test Methods

1 Particulate Matter, PM₁₀

$\mu g/m^3$

282.7

60

SOP-(AAL/SOP/ENV/002)/

CPCB Guideline

IS-5182(P-23)-2006

2 Particulate Matter, PM_{2.5}

$\mu g/m^3$

211.5

100

3 Sulphur Dioxide (as SO₂)

$\mu g/m^3$

16.3

80

IS-5182 (P-2)-2001

4 Nitrogen Dioxide (as NO₂)

$\mu g/m^3$

52.2

80

IS-5182(P-6)-2006

5 Carbon Monoxide (as CO)

mg/m³

1.0

02 (8hr)

IS-5182(P-10)-1999

04 (1hr)

IS-5182(P-9)-1974

6 Ozone (as O₃)

$\mu g/m^3$

23.3

100 (8hr)

IS-5182(P-9)-1974

180 (1hr)

/Photometric

7 Ammonia (as NH₃)

$\mu g/m^3$

<20.0

400

Indo-Phenol Blue Method

8 Lead (as Pb)

$\mu g/m^3$

<0.1

01

IS-5182(P-22)-2004

9 Nickel (as Ni)

ng/m³

<1.0

20

IS-5182(P-22)-2004

10 Arsenic (as As)

ng/m³

<1.0

06

IS-5182(P-22)-2004

11 Benzene (as C₆H₆)

$\mu g/m^3$

<0.1

05

NISOH 6015-2005

12 Banzo a-pyrene (BaP)

ng/m³

<1.0

01

CPCB/GC Method

End of Report

Amlesh Kumar
Sr. ANALYST
Authorized Signatory



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272, Phase-IV, Sec-57, HSIIDC, Kundli, Sonapat-131028 (Haryana)
Ph : 7082301442, 9250014551 Email : aalkundli@gmail.com
Website : www.aalkundli.com



TEST CERTIFICATE

Page 1 of 1

Issued To: M/s KEC International Limited,
Plot No.8, Sector-8, Adjacent to Vasundhara Farms,
Vasundhara, Sahibabad, Ghaziabad (UP)

Sample Description: Ambient Air Quality Monitoring

Date of Monitoring: 15/12/2020 to 16/12/2020

Nature of Work: Construction of elevated viaduct from start of elevated
ramp near Sahibabad RRTS Station up to end of
Ghaziabad RRTS Station, including all special spans and
two nos. of elevated RRTS Station viz. Sahibabad and
Ghaziabad (excluding Architectural Finishing & Roof
Structure of Stations) of Delhi-Meerut Regional Rapid
Transit System (RRTS) Corridor.

Report No. AAL ENV-20201216002

Date of Receiving: 16/12/2020

Date of Starting: 16/12/2020

Date of Completion: 19/12/2020

Date of Reporting: 19/12/2020

Sampling Done By: AAL

TEST RESULT

Sampling Details:

Type of Monitoring: Ambient Air Quality Monitoring

Monitoring Procedure: As per IS-5182, P-14

Location of Sampling Point: P-177 Near Ghaziabad Railway Station

Sampling Started on: 01:00 PM (15/12/2020)

Sampling Completed on: 01:00 PM (16/12/2020)

Actual Time of Sampling (Hrs): 24 Hrs.

Average flow Rate for particulate matter (m^3/min): 1.2

Total Volume of air sampled for particulate matter (m^3): 1728

S. No.	Test Parameters	Unit	Results	Limits NAAQS Monitoring & Analysis Guidelines Volume-I	Test Methods
1	Particulate Matter, $PM_{2.5}$	$\mu g/m^3$	278.5	60	SOP-(AAL/SOP/ENV/002)/CPCB Guideline IS-5182(P-23)-2006
2	Particulate Matter, PM_{10}	$\mu g/m^3$	242.4	100	IS-5182(P-23)-2006
3	Sulphur Dioxide (as SO_2)	$\mu g/m^3$	18.5	80	IS-5182(P-2)-2001
4	Nitrogen Dioxide (as NO_2)	$\mu g/m^3$	48.4	80	IS-5182(P-6)-2006
5	Carbon Monoxide (as CO)	mg/m^3	1.5	02 (8hr) 04 (1hr) 180 (1hr)	IS-5182(P-10)-1999 Reaff. 2003
6	Ozone (as O_3)	$\mu g/m^3$	34.5	100 (8hr) 180 (1hr)	IS-5182(P-9)-1974 /Photometric
7	Ammonia (as NH_3)	$\mu g/m^3$	<20.0	400	Indo-Phenol Blue Method
8	Lead (as Pb)	$\mu g/m^3$	<0.1	01	IS-5182(P-22)-2004
9	Nickel (as Ni)	ng/m^3	<1.0	20	IS-5182(P-22)-2004
10	Arsenic (as As)	ng/m^3	<1.0	06	IS-5182(P-22)-2004
11	Benzene (as C_6H_6)	$\mu g/m^3$	<0.1	05	NISOH 6015-2005
12	Benz[a]pyrene (BaP)	ng/m^3	<1.0	01	CPCB/GC Method

End of Report

Amit Kumar
(Sr. Analyst)
Authorized Signatory



ARIHANT ANALYTICAL LABORATORY PVT. LTD.

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272, Phase-IV, Sec-57, HSIIDC, Kundli, Sonapat-131028 (Haryana)
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Website : www.aalkundli.com



TEST CERTIFICATE

Page 1 of 1

Issued To: M/s KEC International Limited,
Plot No.8, Sector-8, Adjacent to Vasundhara Farms,
Vasundhara, Sahibabad, Gharisabad (UP)

Sample Description: Ambient Noise

Date of Monitoring: 15/12/2020 to 16/12/2020

Nature of Work: Construction of elevated viaduct from start of elevated ramp near Sahibabad RRTS Station up to end of Gharisabad RRTS Station, including all special spans and two nos. of elevated RRTS Station viz. Sahibabad and Gharisabad (excluding Architectural Finishing & Roof Structure of Stations) of Delhi-Meerut Regional Rapid Transit System (RRTS) Corridor.

Sampling Location: P-30 Near Sahibabad Sahaj Mandi

Report No. AAL-ENV-20201216003

Date of Receiving: 16/12/2020

Date of Starting: 16/12/2020

Date of Completion: 19/12/2020

Date of Reporting: 19/12/2020

Sampling Method: By Noise Meter

Sampling Done By: AAL

TEST RESULTS

S. No.	Test Parameter	Unit	Results	Requirement (as per CPCB Guidelines) Limits in dB(A) Leq
1	Noise Level			Category of Area / Zone
	Lmin	dB(A)	41.6	Day Time 06:00AM-10:00PM
	L10	dB(A)	72.8	Night Time 10:00PM-06:00AM
	L50	dB(A)	66.2	
	L90	dB(A)	57.8	
	Leq	dB(A)	65.7	
	Lmax	dB(A)	80.2	
	Leq-Day	dB(A)	66.1	A: Industrial Area 75
	Leq-Night	dB(A)	60.4	B: Commercial Area 65
				C: Residential Area 55
				D: Silence Zone 50

****End of Report****

Analyst
SR ANALYST
Authorized Signatory



ARIHANT ANALYTICAL LABORATORY PVT. LTD.

(NABL Accredited Laboratory)

272, Phase-IV, Sec-57, HSIIDC, Kundli, Sonapat-131028 (Haryana)

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TEST CERTIFICATE

Page 1 of 1

Issued To: M/s KEC International Limited,
Plot No.8, Sector-8, Adjacent to Vasundhara Farms,
Vasundhara, Sahibabad, Ghaziabad (UP)

Sample Description: Ambient Noise

Date of Monitoring: 15/12/2020 to 16/12/2020

Nature of Work: Construction of elevated viaduct from start of elevated
ramp near Sahibabad RRTS Station up to end of
Ghaziabad RRTS Station, including all special spans and
two nos. of elevated RRTS Station viz. Sahibabad and
Ghaziabad (excluding Architectural Finishing & Roof
Structure of Stations) of Delhi-Meerut Regional Rapid
Transit System (RRTS) Corridor.

Sampling Location: P-177 Near Ghaziabad Railway Station

Report No. AAL ENV-20201216004

Date of Receiving: 16/12/2020

Date of Starting: 16/12/2020

Date of Completion: 19/12/2020

Date of Reporting: 19/12/2020

Sampling Method: By Noise Meter

Sampling Done By: AAL

TEST RESULTS

S. No.	Test Parameter	Unit	Results	Requirement (as per CPCB Guidelines) Limits in dB(A) Leq	
				Day Time 06:00AM-10:00PM	Night Time 10:00PM-06:00AM
1	Noise Level				
	L _{min}	dB(A)	41.8	-	-
	L ₁₀	dB(A)	70.6	-	-
	L ₅₀	dB(A)	64.3	-	-
	L ₉₀	dB(A)	55.7	-	-
	L _{eq}	dB(A)	64.5	-	-
	L _{max}	dB(A)	82.2	-	-
	L _{eq} -Day	dB(A)	65.7	75	70
	L _{eq} -Night	dB(A)	61.2	65	55
				55	45
				50	40

End of Report

Amal Kumar
Authorized Signatory



ARIHANT ANALYTICAL LABORATORY PVT. LTD.

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272, Phase-IV, Sec-57, HSIIDC, Kundli, Sonapat-131028 (Haryana)
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TEST CERTIFICATE

Page 1 of 1

Issued To: M/s KEC International Limited,
Plot No.8, Sector-8, Adjacent to Vasundhara Farms,
Vasundhara, Sahibabad, Ghaziabad (UP)

Sample Description: Ambient Air Quality Monitoring

Date of Monitoring: 24/12/2020 to 25/12/2020

Nature of Work: Construction of elevated viaduct from start of elevated
ramp near Sahibabad RRTS Station up to end of
Ghaziabad RRTS Station, including all special spans and
two nos. of elevated RRTS Station via Sahibabad and
Ghaziabad (excluding Architectural Finishing & Roof
Structure of Stations) of Delhi-Meerut Regional Rapid
Transit System (RRTS) Corridor.

Report No. AAL ENV-20201224001

Date of Receiving: 25/12/2020

Date of Starting: 25/12/2020

Date of Completion: 29/12/2020

Date of Reporting: 29/12/2020

Sampling Done By: AAL

TEST RESULT

Sampling Details:

Type of Monitoring: Ambient Air Quality Monitoring

Monitoring Procedure: As per IS-5182, P-14

Location of Sampling Point: P-148 Near Hindon River

Sampling Started on: 04:10 PM (24/12/2020)

Sampling Completed on: 04:10 PM (25/12/2020)

Actual Time of Sampling (Hrs): 24 Hrs.

Average flow Rate for particulate matter (m^3/min): 1.34

Total Volume of air sampled for particulate matter (m^3): 1785.6

S. No.	Test Parameters	Unit	Results	Limits NAAQS Monitoring & Analysis Guidelines Volume-I	Test Methods
1	Particulate Matter, PM ₁₀	$\mu g/m^3$	271.5	60	SOP-(AAL/SOP/ENV/002)/ CPCB Guideline
2	Particulate Matter, PM _{2.5}	$\mu g/m^3$	312.2	100	IS-5182(P-23)-2006
3	Sulphur Dioxide (as SO ₂)	$\mu g/m^3$	14.3	80	IS-5182 (P-2)-2001
4	Nitrogen Dioxide (as NO ₂)	$\mu g/m^3$	61.6	80	IS-5182(P-6)-2006
5	Carbon Monoxide (as CO)	mg/m^3	1.0	02 (8hr) 04 (1hr)	IS-5182(P-10)-1999 Reaff. 2003
6	Ozone (as O ₃)	$\mu g/m^3$	<0.0	100 (8hr) 180 (1hr)	IS-5182(P-9)-1974 /Photometric
7	Ammonia (as NH ₃)	$\mu g/m^3$	<0.0	400	Indo-Phenol Blue Method
8	Lead (as Pb)	$\mu g/m^3$	<0.1	01	IS-5182(P-22)-2004
9	Nickel (as Ni)	ng/m^3	<1.0	20	IS-5182(P-22)-2004
10	Arsenic (as As)	ng/m^3	<1.0	06	IS-5182(P-22)-2004
11	Benzene (as C ₆ H ₆)	$\mu g/m^3$	<0.1	05	NISOH 6015-2005
12	Benzo a-pyrene (BaP)	ng/m^3	<1.0	01	CPCB/GC Method

End of Report


A. Kumar
ANALYST
Authorised Signatory



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Page 1 of 1

Issued To: M/s KEC International Limited,
Plot No.8, Sector-8, Adjacent to Vasundhara Park,
Vasundhara, Sahibabad, Ghaziabad (UP)

Sample Description: Ambient Air Quality Monitoring

Date of Monitoring: 24/12/2020 to 25/12/2020

Nature of Work: Construction of elevated viaduct from start of elevated
ramp near Sahibabad RRTS Station up to end of
Ghaziabad RRTS Station, including all special spans and
two nos. of elevated RRTS Station viz. Sahibabad and
Ghaziabad (excluding Architectural Finishing & Roof
Structure of Stations) of Delhi-Meerut Regional Rapid
Transit System (RRTS) Corridor.

Report No. AAL/ENV-20201225002

Date of Receiving: 25/12/2020

Date of Starting: 25/12/2020

Date of Completion: 29/12/2020

Date of Reporting: 29/12/2020

Sampling Done By: AAL

TEST RESULT

Sampling Details:

Type of Monitoring: Ambient Air Quality Monitoring

Monitoring Procedure: As per IS-5182, P-14

Location of Sampling Point: P-112

Sampling Started on: 05:20 PM (24/12/2020)

Sampling Completed on: 05:20 PM (25/12/2020)

Actual Time of Sampling (Hrs): 24 Hrs.

Average flow Rate for particulate matter (m^3/min): 1.2

Total Volume of air sampled for particulate matter (m^3): 1728

S. No.	Test Parameters	Unit	Results	Limits NAAQS Monitoring & Analysis Guidelines Volume-I	Test Methods
1	Particulate Matter, $PM_{2.5}$	$\mu g/m^3$	247.3	60	SOP-(AAL/SOP/ENV/002)/ CPCB Guideline IS-5182(P-23)-2006
2	Particulate Matter, PM_{10}	$\mu g/m^3$	285.7	100	IS-5182(P-23)-2006
3	Sulphur Dioxide (as SO_2)	$\mu g/m^3$	10.8	80	IS-5182(P-2)-2001
4	Nitrogen Dioxide (as NO_2)	$\mu g/m^3$	51.7	80	IS-5182(P-6)-2006
5	Carbon Monoxide (as CO)	mg/m^3	1.0	02 (8hr) 04 (1hr)	IS-5182(P-10)-1999 Reaff. 2003
6	Ozone (as O_3)	$\mu g/m^3$	<20.0	100 (8hr) 180 (1hr)	IS-5182(P-9)-1974 /Photometric
7	Ammonia (as NH_3)	$\mu g/m^3$	<20.0	400	Indo-Phenol Blue Method
8	Lead (as Pb)	$\mu g/m^3$	<0.1	01	IS-5182(P-22)-2004
9	Nickel (as Ni)	ng/m^3	<1.0	20	IS-5182(P-22)-2004
10	Arsenic (as As)	ng/m^3	<1.0	06	IS-5182(P-22)-2004
11	Benzene (as C_6H_6)	$\mu g/m^3$	<0.1	03	NISOH 6015-2005
12	Benzo a-pyrene (BaP)	ng/m^3	<1.0	01	CPCB/GC Method

****End of Report****





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Page 1 of 1

Issued To: M/s KEC International Limited,
Plot No.8, Sector-E, Adjacent to Vasundhara Farms,
Vasundhara, Sahibabad, Ghaziabad (UP)

Sample Description: Ambient Noise

Date of Monitoring: 24/12/2020 to 25/12/2020

Nature of Work: Construction of elevated viaduct from start of elevated ramp near Sahibabad RRTS Station up to and of Ghaziabad RRTS Station, including all special spans and two nos. of elevated RRTS Station viz. Sahibabad and Ghaziabad (excluding Architectural Finishing & Roof Structure of Stations) of Delhi-Meerut Regional Rapid Transit System (RRTS) Corridor.

Sampling Location: P-148 Near Hindon River

Report No. AAL ENV-20201225003

Date of Receiving: 25/12/2020

Date of Starting: 25/12/2020

Date of Completion: 29/12/2020

Date of Reporting: 29/12/2020

Sampling Method: By Noise Meter

Sampling Done By: AAL

TEST RESULTS

S. No.	Test Parameter	Unit	Results	Requirement (as per CPCB Guidelines) Limits in dB(A) Leq
				Category of Area / Zone
				Day Time 06:00AM-10:00PM
				Night Time 10:00PM-06:00AM
1	Noise Level			
	Lmin	dB(A)	38.4	-
	L10	dB(A)	69.9	-
	L50	dB(A)	61.6	-
	L90	dB(A)	53.5	-
	Leq	dB(A)	63.5	-
	Lmax	dB(A)	80.1	-
	Leq-Day	dB(A)	64.1	A: Industrial Area 75 B: Commercial Area 65 C: Residential Area 55 D: Silence Zone 50
	Leq-Night	dB(A)	60.5	

****End of Report****

Amish Kumar
(ANALYST)
Authorized Signatory



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TEST CERTIFICATE

Page 1 of 1

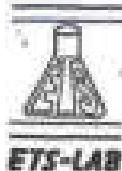
Issued To:	M/s KEC International Limited, Plot No.8, Sector-E, Adjacent to Vasundhara Farms, Vatandhara, Sahibabad, Ghaziabad (UP)	Report No.	AAL ENV-20201225004
Sample Description:	Ambient Noise	Date of Receiving:	25/12/2020
Date of Monitoring:	24/12/2020 to 25/12/2020	Date of Starting:	25/12/2020
Nature of Work:	Construction of elevated viaduct from start of elevated ramp near Sahibabad RRTS Station up to end of Ghaziabad RRTS Station, including all special spans and two nos. of elevated RRTS Station viz. Sahibabad and Ghaziabad (excluding Architectural Finishing & Roof Structure of Stations) of Delhi-Meerut Regional Rapid Transit System (RRTS) Corridor.	Date of Completion:	29/12/2020
		Date of Reporting:	29/12/2020
		Sampling Method:	By Noise Meter
Sampling Location:	P-112	Sampling Done By:	AAL

TEST RESULTS

S. No.	Test Parameter	Unit	Results	Requirement (as per CPCB Guidelines) Limits in dB(A) Less Category of Area / Zone	Day Time 06:00AM-10:00PM	Night Time 10:00PM-06:00AM
1	Noise Level					
	L_{min}	dB(A)	37.2	-	-	-
	L_{10}	dB(A)	67.5	-	-	-
	L_{50}	dB(A)	58.3	-	-	-
	L_{90}	dB(A)	49.8	-	-	-
	L_{eq}	dB(A)	60.7	-	-	-
	L_{max}	dB(A)	78.2	-	-	-
	L_{eq} -Day	dB(A)	64.3	A: Industrial Area	75	70
				B: Commercial Area	65	55
				C: Residential Area	55	45
	L_{eq} -Night	dB(A)	58.4	D: Silence Zone	50	40

****End of Report****

Amrinder Kumar
(S.O. Analyst)
Authorized Signatory



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email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063



NABL Accredited No. 10, Coll No. TC-07-1

TEST REPORT

Attachment-9

TEST REPORT NO: ETS/2504/2020

URL NO: CG071020000015789

DATE OF REPORT: 27.10.2020

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : M/s APCO DRFG (IV) RRTS PROJECT
PLOT NO. 117 DEHI MEERUT ROAD, NH-58 GULDHAR
GHAZIABAD, U.P.

Date of Monitoring : 23.10.2020

Analysis Start Date : 24.10.2020

Analysis End Date : 27.10.2020

Duration Of Monitoring : 23.10.2020 To 24.10.2020

Time Of Monitoring : 08.30 AM To 08.30 AM (CO & O₃ for 1.0 Hrs.)

Sample ID No : 259/10

Sampling Done By : ETS STAFF

Sampling Location : VIADUG I- AT PIER NO-383, LG MACHINE

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 1.5 METER FROM GROUND LEVEL

Weather Condition : CLOUDY Ambient Temperature: 27.0 °C

Wind Direction : WN To SE Relative Humidity: 51.2 %

Equipment Used : Respirable Dust Sampler (PM₁₀) - Fine Particulate Sampler (PM_{2.5})

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Particulate Matters, (PM ₁₀)	µg/m ³	197.5	For 24 Hrs.=100	IS 5182 (Part-23)
2	Particulate Matters, (PM _{2.5})	µg/m ³	83.9	For 24 Hrs.=50	ETS/STP/AIR-05
3	Sulphur Dioxide, (SO ₂)	µg/m ³	17.2	For 24 Hrs.=80	IS: 5182 (Part-2)
4	Nitrogen Dioxide, (NO ₂)	µg/m ³	88.1	For 24 Hrs.=80	IS: 5182 (Part-6)
5	Carbon Monoxide, (CO)*	mg/m ³	2.38	For 8 Hrs.=2; For 1 Hrs.=4	IS 5182 (Part-13)
6	Ammonia, (NH ₃)	µg/m ³	13.0	For 24 Hrs.=400	ETS/STP/AIR-06
7	Arsenic, (As)	ng/m ³	<1.0	For Annual=05	CPCB, Vol.-1, Pg.-19
8	Benzene, (C ₆ H ₆)	µg/m ³	<1.0	For 24 Hrs.=5	IS 5182 (Part-11)
9	Benz(a) Pyrene (BaP)*	ng/m ³	<0.06	For Annual=01	IS 5182 (Part-12)
10	Ozone, (O ₃)	µg/m ³	20.0	For 8 Hrs.=100; For 1 Hrs.=80	IS: 5182 (Part-8)
11	Lead, (Pb)	µg/m ³	<0.05	For 24 Hrs.=1	IS 5182 (Part-22)
12	Nickel, (Ni)	ng/m ³	<1.0	For Annual=20	CPCB, Vol.-1, Pg.-48

Remark: Station (*) marked not covered in NABL scope.

*****End of Instr Report*****

Page 1 of 1

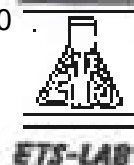


For Enviro-Tech Services
AUTHORIZED SIGNATORY
Md Humair
Quality Manager

Form No: ETS/LAB/FR-01, Issue No: 05, Date: 01.04.2019, Amend No: 06, Date: 01.04.2019

Note:-

1. This test report shall not be used in any advertising, media or as evidence in the court of law without prior written permission of the laboratory.
2. The samples received shall be destroyed after 15 days from the date of test report issued.
3. The result indicated only refer to the tested samples and listed applicable parameters.
4. Our liability is limited to service fees only.
5. Head Office: 14-283, M.G. Road Industrial Area, Dugun-420102 (U.P.) 201015



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TEST REPORT

TEST REPORT NO. ETS/2023/02/023 URI NO.1037/10200000012807 DATE OF REPORT: 27.10.2023

NOISE MONITORING REPORT

Name And Address of Customer : M/s. APCO DRFG (P) RTS PROJECT
PLOT NO. 117, DEHI MEERUT ROAD, NH-38 GULDHAR
GHAZIABAD, U.P.

Date of Monitoring : 23.10.2023
Monitoring Start Date : 23.10.2023
Monitoring End Date : 24.10.2023
Duration Of Monitoring : 24 HOURS
Sample ID No : 263/10
Monitoring Done By : ETS STAFF
Sampling Location : VAIDUGTA P.H. NO-383 NEAR LG MACHINE
Sampling Method : ETS/STP/NOISE-01

S. No.	Test Parameter	Result		Specification/Limit (As per CPCB)		
		Day Time	Night Time	Day Time	Night Time	Category Of Area
1	Average, dB(A)	71.01	63.55	75	70	Industrial Area
2	Maximum, dB(A)	78.60	67.40	85	55	Commercial Area
3	Minimum, dB(A)	65.20	57.30	55	45	Residential Area
4	Leq dB(A)	72.01	63.75	50	40	Silence Area

Remark: Day time is reckoned in between 06.00 A.M. and 12.00 P.M.

Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

End of Test Report



Page 1 of 1

FOR ENVIRO-TECH SERVICES

CHECKED BY

For Enviro-Tech Services

AUTHORIZED SIGNATORY
Quality Manager

Form No: ETS/1 AR-TR-01, Issue No. 03, Date 01.04.2013, Amend. No. 04 Date 01.04.2015

Note:-

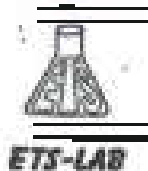
1. This test report shall not be used in any advertising media or as evidence in the court of law without prior written permission of the laboratory.

2. The samples received shall be destroyed after 15 days from the date of test report issued.

3. The results indicated only refer to the tested samples and listed applicable parameters.

4. Our liability is limited to invoice value only.

5. Head Office : G-2/2, N/A, Road Industrial Area, Noida-Ghaziabad (U.P.) 201015



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NABL Accredited Lab
Cert. No. TC4771

91

TEST REPORT

TEST REPORT NO. ETS/0260-17102020

DATE OF REPORT: 07.10.2020

NOISE MONITORING REPORT

Name And Address of Customer : M/s. APCO GREF (JV) MRTS PROJECT
PLOT NO. 1/7, DELHI MEERUT ROAD, NH-58 GULDHAR
GHAZIABAD, U.P.

Date of Monitoring : 06.10.2020

Monitoring Start Date : 06.10.2020

Monitoring End Date : 06.10.2020

Duration Of Monitoring : 24 HOURS

Sample ID No. : 1032-11

Monitoring Done By : ETS STAFF

Sampling Location : AT CASTING YARD, VASUNDHRA GZB

Sampling Method : ETS/STPMNOISE-01

S. No.	Test Parameter	Result		Specification/Limit (As per CPCB)		
		Day Time	Night Time	Day Time	Night Time	Category Of Area
1	Average, dB(A)	62.80	61.65	76	70	Industrial Area
2	Maximum, dB(A)	71.30	68.80	80	75	Commercial Area
3	Minimum, dB(A)	62.10	54.50	55	45	Residential Area
4	Log dB(A)	67.00	61.85	60	40	Silence Area

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

End of Test Report

Signature

Page 1 of 1



H SERVICES

Enviro-Tech Services
FOR AUTHORIZED SIGNATORY
(Signature)
Quality Manager

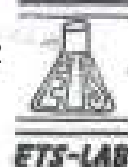
Form No. ETS/LAB/TR-02, Issue No. 05, Date 01.04.2019, Amend. No. 01, Date 01.04.2019

Note:-

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The samples received shall be destroyed after 15 days from the date of test report issued.
The results indicated only refer to the tested samples and listed applicable parameters.
Our liability is limited to invoice value only.

Test withdrawn prior written permission of the laboratory.

E. Head (NABL): G-233, MIDC Road Industrial Area, Hapur-Ghaziabad (U.P.)-201015



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TEST REPORT

ESI REPORT NO.: ETS/24/01/2020

URL NO TCE7: 102X00001241F

NABL CA REPORT: 21.10.2020

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer :

M/s. APCO CRFG (JV) RRTS PROJECT
PLOT NO. 117 DELHI MEERUT ROAD, NH-58 GULDHAR
GHAZIABAD, U.P.

Date of Monitoring :

17.10.2020

Analysis Start Date :

19.10.2020

Analysis End Date :

21.10.2020

Duration Of Monitoring :

17.10.2020 To 18.10.2020

Time Of Monitoring :

09:30 AM To 09:30 AM (CO & O₃ for 1.0 l/hr)

Sample ID No :

224/10

Sampling Done By :

ETS STAFF

Sampling Location :

AT CASTING YARD, VASUNDHRA GZB

Sampling Method :

ETS/STP/AIR-01

Sampling Machine Placed At Height :

1.5 METER FROM GROUND LEVEL

Weather Condition :

CLOUDY Ambient Temperature: 30.0 °C

Wind Direction :

WN To SE Relative Humidity: 54.2 %

Equipment Used :

Respirable Dust Sampler (PM₁₀) & Fine Particulate Sampler (PM_{2.5})

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Particulate Matters (PM ₁₀)	µg/m ³	171.9	For 24 Hrs.=100	IS 5182 (Part-23)
2	Particulate Matters (PM _{2.5})	µg/m ³	82.5	For 24 Hrs.=60	ETS/STP/AIR-05
3	Sulphur Dioxide (SO ₂)	µg/m ³	17.5	For 24 Hrs.=80	IS: 5182 (Part-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	85.7	For 24 Hrs.=80	IS: 5182 (Part-5)
5	Carbon Monoxide (CO)	mg/m ³	2.23	For 24 Hrs.=2 For 1 Hr.=1	IS 5182 (Part-10)
6	Ammonia (NH ₃)	µg/m ³	10.0	For 24 Hrs.=100	ETS/STP/AIR-38
7	Arsenic (As)	ng/m ³	<1.0	For Air = 0.5	CPCB, Vol-1, Pg-43
8	Benzene (C ₆ H ₆)	µg/m ³	<1.0	For 24 Hrs.=5	IS 5182 (Part-11)
9	Benzo (a) Pyrene (BaP)	ng/m ³	<0.05	For Annual=0.1	IS 5182 (Part-12)
10	Ozone (O ₃)	µg/m ³	25.6	For 24 Hrs.=100 For 1 Hr.=10	IS: 5182 (Part-9)
11	Lead (Pb)	µg/m ³	<0.05	For 24 Hrs.=1	IS 5182 (Part-22)
12	Nitrate (N)	ng/m ³	<1.0	For Annual=20	CPCB, Vol-1, Pg-46

Remarks: Star (*) marked are covered in NABL scope.

*****End of Test Report*****

Page 1 of 1

Signature of Quality Manager

For Enviro-Tech Services

AUTHORIZED SIGNATORY

Mid. Humira

Quality Manager

Form No ETS-LAB/TH-01, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

Note:-

1. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.
2. The samples received shall be destroyed after 15 days from the date of test report issued.
3. The results indicated only refer to the tested samples and listed applicable parameters.
4. Our liability is limited to invoice value only.
5. Head Office : G-232, M.G. Road Industrial Area, Hapur- Ghaziabad (U.P.) 201013





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(An ISO 9001:2015, 14001:2015 and 45001:2018 Certified Company)

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Plot No. 1/32, South Side G.T. Road Industrial Area, Ghaziabad (U.P.)-201001

email : etslab2012@gmail.com

Website : www.etslab.in

Ph.: 9911516076, 9811736063



NABL Accredited for
Civil No. TC-3774

TEST REPORT

TEST REPORT NO.: ETS/257/02020

URL: NG.TCR710/000001242F

DATE OF REPORT : 21.10.2020

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer

M/s. APCO CRFG (JV) RRTS PROJECT
PLOT NO. 117, DELHI MEERUT ROAD, NH-58 GULDHAR
GHAZIABAD, U.P.

Date of Monitoring

: 17.10.2020

Analysis Start Date

: 18.10.2020

Analysis End Date

: 21.10.2020

Duration Of Monitoring

: 17.10.2020 To 18.10.2020

Time Of Monitoring

: 10:00 AM To 10:00 AM (CO & O₃ for 1.0 Hrs.)

Sample ID No

: 225/19

Sampling Done By

: ETS STAFF

Sampling Location

: VIADUCT- AT PIER NO-288, G7B

Sampling Method

: ETS/STP/AIR-01

Sampling Machine Placed At Height

: 1.5 METER FROM GROUND LEVEL

Weather Condition

: CLOUDY Ambient Temperature: 30.0 °C

Wind Direction

: WNT> SE Relative Humidity: 54.2 %

Equipment Used

: Respirable Dust Sampler (PM₁₀) + Fine Particulate Sampler (PM_{2.5})

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Particulate Matters (PM ₁₀)	µg/m ³	177.5	For 24 Hrs =100	IS 5182 (Part-23)
2	Particulate Matters (PM _{2.5})	µg/m ³	88.8	For 24 Hrs =50	ETS/STP/AIR-33
3	Sulphur Dioxide (SO ₂)	µg/m ³	15.9	For 24 Hrs =80	IS: 5182 (Part-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	82.1	For 24 Hrs =80	IS: 5182 (Part-5)
5	Carbon Monoxide (CO)	mg/m ³	2.20	For 8 Hrs =2.1 or 1 Hrs =4	IS 5182 (Part-10)
6	Ammonia (NH ₃)	µg/m ³	8.0	For 24 Hrs =400	ETS/STP/AIR-38
7	Arsenic (As)	ng/m ³	<1.0	For Annual=06	CPCB, Vol-1 Pg-49
8	Benzene (C ₆ H ₆)	µg/m ³	<1.0	For 24 Hrs =5	IS 5182 (Part-11)
9	Benzo (a) Pyrene (BaP)	ng/m ³	<0.05	For Annual=01	IS 5182 (Part-12)
10	Ozone (O ₃)	µg/m ³	28.0	For 2 Hrs =100 or 1 Hrs =180	IS: 5182 (Part-9)
11	Lead (Pb)	µg/m ³	<0.35	For 24 Hrs =1	IS 5182 (Part-22)
12	Nickel (Ni)	ng/m ³	<1.0	For Annual=20	CPCB, Vol-1 Pg-48

Remark:- Star (*) marked not covered in NABL scope.

*** End of Test Report ***

Page 1 of 1

FOR ENVIRO-TECH SERVICES

CHECKED BY

Formal No: ETS/LAB/TR-01, Issue No: 05, Date: 01.01.2018, Amend. No. 04 Date: 31.03.2019

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4. Our liability is limited to invoice value only.
5. Head Office : G-2/3, G.T. Road Industrial Area, Noida-Ghaziabad (U.P.) 201015

For Enviro-Tech Services

AUTHORIZED SIGNATORY

Quality Manager



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email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516075, 9511736063



TEST REPORT

TEST REPORT NO. : L15/228/13/2521 VRL NO. TD9771020506/0013/19 DATE OF REFERENCE : 21/10/2020

NOISE MONITORING REPORT

Name And Address of Customer : M/s. APCO CRFG (JV) RRTS PROJECT
PLOT NO. 117, DELHI MEERUT ROAD NH 58 GULDHAR
GHAZIABAD, U.P.

Date of Monitoring : 17.10.2020

Monitoring Start Date : 17.10.2020

Monitoring End Date : 18.10.2020

Duration Of Monitoring : 24 HOURS

Sample ID No : 228/10

Monitoring Done By : ETS STAFF

Sampling Location : AT CASTING YARD, VASUNDHRA GZR

Sampling Method : ETS/STP/NOISE-D1

S. No.	Test Parameter	Result		Specification/Limit (As per CPCB)		
		Day Time	Night Time	Day Time	Night Time	Category Of Area
1	Average, $L_{eq}(A)$	69.80	82.31	75	70	Industrial Area
2	Maximum, $L_{max}(A)$	75.70	86.20	85	80	Commercial Area
3	Minimum, $L_{min}(A)$	65.30	57.70	55	45	Residential Area
4	$L_{eq} dB(A)$	73.18	82.51	50	40	Silence Area

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

****End of Test Report****

Signature

Page 1 of 1



Form No ETS/LAB/TS-02, Issue No. 05, Date 01.04.2019, Amend. No. 04 Date 01.06.2019

For Enviro-Tech Services
AUTHORIZED SIGNATORY
Md. H. Miraj
Quality Manager

Note:-

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2. The samples received shall be destroyed after 15 days from the date of test report issued.
3. The results indicated only refer to the tested samples and listed applicable parameters.
4. Our liability is limited to invoice value only.
5. Head Office : G-232, A.C. Road Industrial Area, Bapna-42 (Ghaziabad) (U.P.) 201005



TEST REPORT

Issued to

M/s L & T Construction
Heavy Civil Infrastructure IC
Khasra No 144/1, Opposite to IGL Gas Station
Asalatnagar, NH-58, Ghaziabad
Uttar Pradesh-201206

Doc No.

ELPL/IV/QF/20

Lab Reference No.

Issue Date

Your Reference

Amend. No. & Amend.

Date : 02 & 17.02.2018

: 201005001 A

: 09/10/2020

: Email

Project: RRTS P3L1

(Page 1 of 1)

Sample Particulars: Ambient Air Monitoring was done at opposite KIET College Muradnagar (Ghaziabad) on 03/10/2020 to 04/10/2020.

Latitude- 28°45'20.41"


Longitude- 77°29'50.54"

Type of sample	: Ambient Air	Sample Registration Date	: 05/10/2020
Sampling Date	: 03/10/2020- 04/10/2020	Analysis Starting Date	: 05/10/2020
Sampling Done by	: Lab representative	Analysis Completion Date	: 08/10/2020
Quantity received	: 24 Hourly Sample	Tests Required	: Mentioned below
Sample's Location	: Near Guard Room	Sampling Method	: ELPL/III/SOP/21

S.No.	Test Parameters	Units	Results	NAAQS	Test Method
1	Particulate Matter as PM ₁₀	µg/m ³	148	100 (24 Hourly)	IS 5182 (Pt-23)
2	Particulate Matter as PM _{2.5}	µg/m ³	104	050 (24 Hourly)	ELPL/III/SOP/23
3	Sulphur Dioxide as SO ₂	µg/m ³	13.8	080 (24 Hourly)	IS 5182 (Pt-02)
4	Nitrogen Dioxide as NO ₂	µg/m ³	42.3	030 (24 Hourly)	IS 5182 (Pt-08)
5	Carbon Monoxide as CO	mg/m ³	0.52	002 (08 Hourly)	IS 5182 (Pt-10)

*****END OF REPORT*****


Analyzed By
(Vikash Kumar)


Checked By
(Dr. Ramesh C. Tripathi)


Authorized Signatory
(Purushottam Kumar Sharma)


TEST REPORT

Issued to

M/s L & T Construction
 Heavy Civil Infrastructure IC
 Khasra No 144/1, Opposite to IGL Gas Station
 Asalatnagar, NH-58, Ghaziabad
 Uttar Pradesh-201206

Doc No.

ELPL/IV/QF/20

Lab Reference No.

Issue Date

Your Reference

Amend. No. & Amend.

Date : 02 & 17.02.2018

: 201005002 N

: 09/10/2020

: Email

Project: RRTS P3L1

(Page 1 of 1)

Sample Particulars: Ambient Noise Monitoring was done at opposite KIET College
 Muradnagar, (Ghaziabad) on 03/10/2020 to 04/10/2020.

Latitude- 28°45'20.41"

Longitude- 77°29'50.54"

Type of sample	: Ambient Noise	Sample Registration Date	: 05/10/2020
Sampling Date	: 03/10/2020-04/10/2020	Analysis Starting Date	: 05/10/2020
Sampling Done by	: Lab representative	Analysis Completion Date	: 06/10/2020
Quantity received	: 24 Hourly Sample	Tests Required	: Mentioned below
Sample's Location	: Near Guard Room	Sampling Method	: ELPL/III/SOP/37

Time	Leq	Method
Day Time(06:00 am to 10:00 pm)	74.6	ELPL/III/SOP/37
Night Time(10:00 pm to 06:00 am)	67.3	ELPL/III/SOP/37

Standards for Ambient Noise As per Noise Pollution (Regulation & Control Rule-2000)			
Area Code	Category of Area/Zone	Limits in dB (A) Leq*	
		Day time	Night time
(A)	Industrial area	75	70
(B)	Commercial area	65	55
(C)	Residential area	55	45
(D)	Silence Zone	50	40

*****END OF REPORT*****

*Leq : It is energy mean of the noise level over a specified period.

Analyzed By
 (Vikash Kumar)

Checked By
 (Dr. Ramesh C. Tripathi)

Authorized Signatory
 (Purusottam Kumar Sharma)





TEST REPORT

Issued to

M/s L & T Construction
Heavy Civil Infrastructure IC
Khasra No 144/1, Opposite to IGL Gas Station
Asalatnagar, NH-58, Ghaziabad
Uttar Pradesh-201206

Doc No.
ELPL/IV/QF/20
Lab Reference No.
Issue Date
Your Reference

Amend. No. & Amend.
Date : 02 & 17.02.2018
: 201005003 A
: 09/10/2020
: Email

Project: RRTS P3L1

(Page 1 of 1)

Sample Particulars: Ambient Air Monitoring was done at opposite IOCL Petrol Pump, Muradnagar (Ghaziabad) on 03/10/2020 to 04/10/2020.

Latitude- 28°46'14.90"

Longitude- 77°30'40.21"

Type of sample	: Ambient Air	Sample Registration Date	: 05/10/2020
Sampling Date	: 03/10/2020- 04/10/2020	Analysis Starting Date	: 05/10/2020
Sampling Done by	: Lab representative	Analysis Completion Date	: 08/10/2020
Quantity received	: 24 Hourly Sample	Tests Required	: Mentioned below
Sample's Location	: Near Guard Room	Sampling Method	: ELPL/III/SOP/21

S.No.	Test Parameters	Units	Results	NAAQS	Test Method
1	Particulate Matter as PM ₁₀	µg/m ³	169	100 (24 Hourly)	IS 5182 (Pt-23)
2	Particulate Matter as PM _{2.5}	µg/m ³	114	050 (24 Hourly)	ELPL/III/SOP/23
3	Sulphur Dioxide as SO ₂	µg/m ³	14.2	050 (24 Hourly)	IS 5182 (Pt-02)
4	Nitrogen Dioxide as NO ₂	µg/m ³	48.9	030 (24 Hourly)	IS 5182 (Pt-06)
5	Carbon Monoxide as CO	mg/m ³	0.63	002 (08 Hourly)	IS 5182 (Pt-10)

*****END OF REPORT*****

Analyzed By
(Vikash Kumar)

Checked By
(Dr. Ramesh C. Tripathi)

Authorized Signatory
(Purusottam Kumar Sharma)


TEST REPORT

Issued to

 M/s L & T Construction
 Heavy Civil Infrastructure IC
 Khasra No 144/1, Opposite to IGL Gas Station
 Asalatnagar, NH-58, Ghaziabad
 Uttar Pradesh-201206

Doc No.

ELPL/IV/QF/20

Lab Reference No.

Issue Date

Your Reference

Amend. No. & Amend.

Date : 02 & 17.02.2018

: 201005004 N

: 09/10/2020

: Email

Project: RRTS P3L1

(Page 1 of 1)

 Sample Particulars: Ambient Noise Monitoring was done at opposite IOCL Petrol Pump,
 Muradnagar (Ghaziabad) on 03/10/2020 to 04/10/2020.

Latitude- 28°46'14.90"

Longitude- 77°30'40.21"

Type of sample	: Ambient Noise	Sample Registration Date	: 05/10/2020
Sampling Date	: 03/10/2020-04/10/2020	Analysis Starting Date	: 05/10/2020
Sampling Done by	: Lab representative	Analysis Completion Date	: 06/10/2020
Quantity received	: 24 Hourly Sample	Tests Required	: Mentioned below
Sample's Location	: Near Guard Room	Sampling Method	: ELPL/III/SOP/37

Time	Leq	Method
Day Time(06:00 am to 10:00 pm)	75.1	ELPL/III/SOP/37
Night Time(10:00 pm to 06:00 am)	69.9	ELPL/III/SOP/37

Standards for Ambient Noise As per Noise Pollution (Regulation & Control Rule-2000)			
Area Code	Category of Area/Zone	Limits in dB (A) Leq*	
		Day time	Night time
(A)	Industrial area	75	70
(B)	Commercial area	65	55
(C)	Residential area	55	45
(D)	Silence Zone	50	40

*****END OF REPORT*****

*Leq : It is energy mean of the noise level over a specified period

 Analyzed By
 (Vikash Kumar)

 Checked By
 (Dr. Ramesh C. Tripathi)

 Authorized Signatory
 (Purushottam Kumar Sharma)




ARIHANT ANALYTICAL LABORATORY PVT. LTD.

Attachment-11

99

AN ISO 9001:2015, ISO 14001:2004, OHSAS 18001:2007 CERTIFIED LABORATORY

272, Phase-IV, Sec-57, HSIDC, Kundli, Sonapat-131028 (Haryana)

Ph. : 7082301442, 9250014551 Email : aalkundli@gmail.com

Website : www.aalkundli.com

TEST CERTIFICATE

Page 1 of 1

Issued To:	M/s Larsen & Toubro Ltd. NCRTC Project Meerut (UP)	Report No.	AAL ENV-2020/113001
Sample Description:	Ambient Air Quality Monitoring	Date of Receiving:	13/11/2020
Date of Monitoring:	13/11/2020 to 13/11/2020	Date of Starting:	13/11/2020
Purpose of Monitoring:	Self Assessment	Date of Completion:	18/11/2020
		Date of Reporting:	18/11/2020
		Sampling Done By:	AAL

TEST RESULT

Sampling Details:

Type of Monitoring	: Ambient Air Quality Monitoring
Monitoring Procedure	: As per IS-5182, P-14
Location of Sampling Point	: P-1272...P5 (Partapur)
Sampling Started on	: 04:00 PM (13/11/2020)
Sampling Completed on	: 04:00 PM (13/11/2020)
Actual Time of Sampling (Hrs)	: 24 Hrs.
Average flow Rate for particulate matter (m^3/min)	: 1.2
Total Volume of air sampled for particulate matter (m^3)	: 1728

S. No.	Test Parameters	Unit	Results	Limits NAAQS Monitoring & Analysis Guidelines Volume-I	Test Methods
1	Suspended Particulate Matter (SPM)	mg/m^3	0.36	500	IS-5182(P-4)-1999
2	RSPM- Particulate Matter, PM_{10}	ug/m^3	309.2	100	IS-5182(P-23)-2006
3	Particulate Matter, $PM_{2.5}$	ug/m^3	290.3	60	(AAL/SOP/ENV/002) CPCB Guideline
4	Sulphur Dioxide (as SO_2)	ug/m^3	12.8	80	IS-5182 (P-2)-2001
5	Nitrogen Dioxide (as NO_2)	ug/m^3	54.2	80	IS-5182(P-6)-2006
6	Carbon Monoxide (as CO)	mg/m^3	1.5	02 (8hr) 04 (1hr)	IS-5182(P-10)-1999 Reaff. 2003

End of Report

Dr. D. R. Sharma
Gen. Manager (O&T)
Authorised Signatory

- Note:**
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Page 1 of 1

Issued To:	M/s Larsen & Toubro Ltd. NCRTC Project Meerut (UP)	Report No.	AAL ENV-20201113002
Sample Description:	Ambient Air Quality Monitoring	Date of Receiving:	13/11/2020
Date of Monitoring:	12/11/2020 to 13/11/2020	Date of Starting:	13/11/2020
Purpose of Monitoring:	Self Assessment	Date of Completion:	18/11/2020
		Date of Reporting:	18/11/2020
		Sampling Done By:	AAL

TEST RESULT

Sampling Details:

Type of Monitoring:	Ambient Air Quality Monitoring
Monitoring Procedure:	As per IS-5182, P-14
Location of Sampling Point:	P-1006 (Kadnabad)
Sampling Started on:	04:30 PM (12/11/2020)
Sampling Completed on:	04:30 PM (13/11/2020)
Actual Time of Sampling (Hrs)	24 Hrs.
Average flow Rate for particulate matter (m^3/min)	1.15
Total Volume of air sampled for particulate matter (m^3)	1656

S. No.	Test Parameters	Unit	Results	Limits NAAQS Monitoring & Analysis Guidelines Volume-I	Test Methods
1	Suspended Particulate Matter (SPM)	mg/m^3	0.39	-	IS-5182(P-4)-1999
2	RSPM- Particulate Matter, PM_{10}	$\mu g/m^3$	311.4	100	IS-5182(P-23)-2006
3	Particulate Matter, $PM_{2.5}$	$\mu g/m^3$	299.1	60	(AAL/SOP/ENV/002) CPCB Guideline
4	Sulphur Dioxide (as SO_2)	$\mu g/m^3$	11.5	80	IS-5182 (P-2)-2001
5	Nitrogen Dioxide (as NO_2)	$\mu g/m^3$	56.4	80	IS-5182(P-6)-2006
6	Carbon Monoxide (as CO)	mg/m^3	1.9	02 (8hr) 04 (1hr)	IS-5182(P-10)-1999 Reaff. 2003

****End of Report****

Dr. D. S. Sharma
Gen. Manager (O&T)
Authorised Signatory

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TEST CERTIFICATE

Page 1 of 1

Issued To:	M/s Lamen & Toubra Ltd. NCRTC Project Meerut (UP)	Report No.	AAL ENV-20201113003
Sample Description:	Ambient Noise	Date of Receiving:	13/11/2020
Date of Monitoring:	12/11/2020 to 13/11/2020	Date of Starting:	13/11/2020
Sampling Location:	P-1272...P5 (Partapur)	Date of Completion:	18/11/2020
Purpose of Monitoring:	Self Assessment	Date of Reporting:	18/11/2020
		Sampling Method:	By Noise Meter
		Sampling Done By:	AAL

TEST RESULTS

S. No.	Test Parameter	Unit	Results	Requirement (as per CPCB Guidelines) Limits in dB(A) Leq		
				Category of Area / Zone	Day Time 06:00 AM-10:00 PM	Night Time 10:00 PM-06:00 AM
1	Noise Level					
	Lmin	dB(A)	43.6	-	-	-
	L10	dB(A)	73.5	-	-	-
	L50	dB(A)	66.5	-	-	-
	L90	dB(A)	59.2	-	-	-
	Leq	dB(A)	66.4	-	-	-
	Lmax	dB(A)	81.3	-	-	-
	Leq-Day	dB(A)	67.5	A: Industrial Area	75	70
				B: Commercial Area	65	55
	Leq-Night	dB(A)	61.3	C: Residential Area	55	45
				D: Silence Zone	50	40

End of Report

Dr. D.R. Sharma
Gen. Mgr.
Authorized Signatory

- Note:
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272, Phase-IV, Sec-57, HSIDC, Kundli, Sonapat-131028 (Haryana)

Ph. : 7082301442, 9250014553; Email : aalkundli@gmail.com

Website : www.aalkundli.com

TEST CERTIFICATE

Page 1 of 1

Issued To:	M/s Larsen & Toubro Ltd. NCRTC Project Meerut (UP)	Report No.	AAL ENV-20201113064
Sample Description:	Ambient Noise	Date of Receiving:	13/11/2020
Date of Monitoring:	12/11/2020 to 13/11/2020	Date of Starting:	13/11/2020
Sampling Location:	P-1006 (Kadruabad)	Date of Completion:	18/11/2020
Purpose of Monitoring:	Self Assessment	Date of Reporting:	18/11/2020
		Sampling Method:	By Noise Meter
		Sampling Done By:	AAL

TEST RESULTS

S. No.	Test Parameter	Unit	Results	Requirement (as per CPCB Guidelines) Limits in dB(A) Leq		
				Category of Area / Zone	Day Time 06:00AM-10:00PM	Night Time 10:00PM-06:00AM
1	Noise Level					
	Lmin	dB(A)	42.8	-	-	-
	L10	dB(A)	73.9	-	-	-
	L50	dB(A)	59.4	-	-	-
	L90	dB(A)	53.2	-	-	-
	Leq	dB(A)	66.1	-	-	-
	Lmax	dB(A)	80.2	-	-	-
	Leq-Day	dB(A)	66.1	A: Industrial Area	75	70
				B: Commercial Area	65	55
				C: Residential Area	55	45
	Leq-Night	dB(A)	60.4	D: Silence Zone	50	40

****End of Report****

Dr. D.R. Sharma
Gen. Manager (Q&E)
Authorised Signatory

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5. The non-perishable sample received shall be destroyed after one month and perishable sample shall be destroyed after one week from the date of issue of report unless specified.



ARIHANT ANALYTICAL LABORATORY PVT. LTD.

AN ISO 9001:2015, ISO 14001:2004, OHSAS 18001:2007 CERTIFIED LABORATORY

272, Phase-IV, Sec-57, HSIIDC, Kundli, Sonapat-131028 (Haryana)

Ph. : 7082301442, 9250014551 Email : aal kundli@gmail.com

Website : www.aalkundli.com

TEST CERTIFICATE

Page 1 of 1

Issued To: M/s Larsen & Toubro Ltd.
NCRTC Project
Meerut (UP)

Report No. AAL ENV-20201127004

Sample Description: Ambient Air Quality Monitoring
Date of Monitoring: 26/11/2020 to 27/11/2020
Purpose of Monitoring: Self Assessment

Date of Receiving: 27/11/2020
Date of Starting: 27/11/2020
Date of Completion: 30/11/2020
Date of Reporting: 30/11/2020
Sampling Done By: A.A.I.

TEST RESULT

Sampling Details:

Type of Monitoring : Ambient Air Quality Monitoring
Monitoring Procedure : As per IS-5182, P-14
Location of Sampling Point : Casting Yard Near Fabrication Area
Sampling Started on : 02:00 PM (26/11/2020)
Sampling Completed on : 02:00 PM (27/11/2020)
Actual Time of Sampling (Hrs) : 24 Hrs.
Average flow Rate for particulate matter (m^3/min) : 1.1
Total Volume of air sampled for particulate matter (m^3) : 1584

S. No.	Test Parameters	Unit	Results	Limits NAAQS Monitoring & Analysis Guidelines Volume-I	Test Methods
1	Suspended Particulate Matter (SPM)	mg/m^3	0.12	-	IS-5182(P-4)-1999
2	RSPM- Particulate Matter, PM_{10}	$\mu g/m^3$	294.2	100	IS-5182(P-23)-2006
3	Particulate Matter, $PM_{2.5}$	$\mu g/m^3$	271.2	60	(AAL/SOP/ENV/1002)/ CPCB Guideline
4	Sulphur Dioxide (as SO_2)	$\mu g/m^3$	11.7	80	IS-5182 (P-2)-2001
5	Nitrogen Dioxide (as NO_2)	$\mu g/m^3$	47.6	80	IS-5182(P-6)-2006
6	Carbon Monoxide (as CO)	mg/m^3	1.2	02 (8hr) 04 (1hr)	IS-5182(P-10)-1999 Reff. 2003

****End of Report****



Authorised Signatory

- Note:**
1. The Result indicated above refer to the tested sample and listed test parameters only. Endorsement of products is neither inferred nor implied.
 2. Total liability of our laboratory is limited to the invoice amount.
 3. This report shall not be reproduced wholly or in part without written consent of the laboratory.
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272, Phase-IV, Sec-57, HSIIDC, Kundli, Sonapat-131028 (Haryana)

Ph. : 7082301442, 9250014551 Email : aalkundli@gmail.com

Website : www.aalkundli.com

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Page 1 of 1

Issued To:	M/s Larsen & Toubro Ltd. NCRTC Project Meerut (UP)	Report No.	AAL/ENV-2020/127005
Sample Description:	Ambient Air Quality Monitoring	Date of Receiving:	27/11/2020
Date of Monitoring:	26/11/2020 to 27/11/2020	Date of Starting:	27/11/2020
Purpose of Monitoring:	Self Assessment	Date of Completion:	30/11/2020
		Date of Reporting:	30/11/2020
		Sampling Done By:	AAL

TEST RESULT

Sampling Details:

Type of Monitoring	Ambient Air Quality Monitoring
Monitoring Procedure	As per IS-5182, P-14
Location of Sampling Point	P-5 Kunda Dwar Partapur
Sampling Started on	05:00 PM (26/11/2020)
Sampling Completed on	03:00 PM (27/11/2020)
Actual Time of Sampling (Hrs)	24 Hrs.
Average flow Rate for particulate matter ($\text{m}^3/\text{min.}$)	1.2
Total Volume of air sampled for particulate matter (m^3)	1728

S. No.	Test Parameters	Unit	Results	Limits NAAQS Monitoring & Analysis Guidelines Volume-I	Test Methods
1	Suspended Particulate Matter (SPM)	mg/m^3	0.37	*	IS-5182(P-4)-1999
2	RSPM- Particulate Matter, PM_{10}	$\mu\text{g}/\text{m}^3$	301.5	100	IS-5182(P-23)-2006
3	Particulate Matter, $\text{PM}_{2.5}$	$\mu\text{g}/\text{m}^3$	288.2	60	(AAL/SOP/ENV/002) CPCB Guideline
4	Sulphur Dioxide (as SO_2)	$\mu\text{g}/\text{m}^3$	12.2	80	IS-5182 (P-2)-2001
5	Nitrogen Dioxide (as NO_2)	$\mu\text{g}/\text{m}^3$	49.3	80	IS-5182(P-6)-2006
6	Carbon Monoxide (as CO)	mg/m^3	1.2	02 (8hr) 04 (1hr)	IS-5182(P-10)-1999 Reaff. 2003

****End of Report****



Authorized Signatory

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Ph. : 7082301442, 9250014551 Email : aal@kundli@gmail.com

Website : www.aalkundli.com

TEST CERTIFICATE

Page 1 of 1

Issued To:	M/s Larsen & Toubro Ltd. NCRTC Project Meerut (UP)	Report No.	AAL ENV-20201127006
Sample Description:	Ambient Noise	Date of Receiving:	27/11/2020
Date of Monitoring:	26/11/2020 to 27/11/2020	Date of Starting:	27/11/2020
Sampling Location:	Casting Yard Near Fabrication Area	Date of Completion:	30/11/2020
Purpose of Monitoring:	Self Assessment	Date of Reporting:	30/11/2020
		Sampling Method:	By Noise Meter
		Sampling Done By:	AAL

TEST RESULTS

S. No.	Test Parameter	Unit	Results	Requirement (as per CPCB Guidelines) Limits in dB(A) Leq	
				Category of Area / Zone	Day Time 06:00AM-10:00PM Night Time 10:00PM-06:00AM
1	Noise Level				
	Lmin	dB(A)	43.3	-	-
	L10	dB(A)	73.1	-	-
	L50	dB(A)	67.2	-	-
	L90	dB(A)	60.3	-	-
	Leq	dB(A)	67.1	-	-
	Lmax	dB(A)	80.2	-	-
	Leq-Day	dB(A)	68.4	A: Industrial Area	75
				B: Commercial Area	65
				C: Residential Area	55
	Leq-Night	dB(A)	62.3	D: Silence Zone	50

****End of Report****



Authorised Signatory

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Ph : 7082301442, 9250014551 Email : aal.kundli@gmail.com

Website : www.aalkundli.com

TEST CERTIFICATE

Page 1 of 1

Issued To:	M/s Larsen & Toubro Ltd. NCRTC Project Meerut (UP)	Report No.	AAL ENV-2020/127007
Sample Description:	Ambient Noise	Date of Receiving:	27/11/2020
Date of Monitoring:	26/11/2020 to 27/11/2020	Date of Starting:	27/11/2020
Sampling Location:	P-5 Kunda Dwar Partapur	Date of Completion:	30/11/2020
Purpose of Monitoring:	Self Assessment	Date of Reporting:	30/11/2020
		Sampling Method:	By Noise Meter
		Sampling Done By:	AAL

TEST RESULTS

S. No.	Test Parameter	Unit	Results	Requirement (as per CPCB Guidelines) Limits in dB(A) Leq		
1	Noise Level			Category of Area / Zone	Day Time 06:00AM-10:00PM	Night Time 10:00PM-06:00AM
	L _{min}	dB(A)	43.4	-	-	-
	L ₁₀	dB(A)	72.8	-	-	-
	L ₅₀	dB(A)	63.4	-	-	-
	L ₉₀	dB(A)	55.7	-	-	-
	L _{eq}	dB(A)	66.6	-	-	-
	L _{max}	dB(A)	78.7	-	-	-
	L _{eq-Day}	dB(A)	67.5	A: Industrial Area	75	70
L _{eq-Night}	dB(A)	61.6	B: Commercial Area	65	55	
			C: Residential Area	55	45	
			D: Silence Zone	50	40	

****End of Report****

Authorised Signatory

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Attachment-12

Dust Control Measures



COVID-19 Preventive Measures

Attachment-13





उत्तर प्रदेश UTTAR PRADESH

CC 379779

AGREEMENT FOR SAFELY DISPOSAL OF HAZARDOUS WASTE (USED LUBE OIL)

This agreement is made and executed at July, 1st 2020 to June, 30st, 2021.

By and Between:

M/s KEC-CCECC JV [Hereinafter referred to as the 'First Party'] which expression shall unless repugnant to the context or meaning hereof mean and include its representative, successors in interest, executors, administrators, liquidators and permitted assigns], through its duly Mr. Gautam Mallick of the one part;

And

M/s IFP Petro Products Pvt Ltd, 16/2, C Industrial Area Site IV Sahibabad, Ghaziabad hereinafter referred to as the "Second Party", which expression shall, unless repugnant to the context or meaning hereof, mean and include its representatives, successors in interest, executors, administrators, liquidators and permitted assigns], through its duly Authorized Signatory

Mr. Kishore Kumar, Senior Commercial Executive of the other part;

(The above mentioned Parties to this agreement shall also be collectively referred to as "Parties" and individually as "Party").

AND WHEREAS the Second Party has represented that they are the authorized, registered and licensed under State Pollution Control Board and have a cost effective organization of Hazardous Waste to safely dispose generated waste oil and has requested to purchase the Used Lube Oil from the first party and First Party has accepted the request of Second Party on the terms and conditions set forth in this agreement.

Page 1 of 4

For IFP Petro Products Pvt. Ltd.

Authorized Signatory

27 JUL 2020

ક્રમ રાંબ..... 76 રાંબ.....

સ્થાનક રાંબ રાંબ રાંબ રાંબ રાંબ.....

સ્થાનક રાંબ રાંબ રાંબ રાંબ રાંબ.....

સ્થાનક રાંબ રાંબ..... 50/-

અરજી રાંબ રાંબ રાંબ રાંબ રાંબ 421 A

સ્થાનક રાંબ રાંબ રાંબ રાંબ રાંબ 31-8-2021

12. સ્થાનક રાંબ રાંબ, સ્થાનક રાંબ, રાંબ રાંબ

IFP Petro Products Pvt.
Ltd.16/2C, Site-IV, Industrial
Area, Sahibabad,
Ghaziabad

12. સ્થાનક રાંબ રાંબ, સ્થાનક રાંબ, રાંબ રાંબ

AND WHEREAS it is deemed expedient to record the terms and conditions between the parties in this Agreement.

111

NOW THIS AGREEMENT WITNESSETH AND IT IS HEREBY AGREED, DECLARED COVENANTED AND RECORDED BY AND BETWEEN THE PARTIES HERETO AS FOLLOWS.

1. That the First Party has agreed to engage Second Party on terms and conditions contained hereinafter for selling used lube oil from First Party.
2. That Second Party will purchase the used oil from first parties as mentioned above sites at rates mentioned in this agreement.
3. That Second Party shall use its best skills and judgments and shall perform all services timely, diligently and to the reasonable scarification of the First Party in a whole.
4. That the Second Party shall provide the service diligently and in conformity with the applicable laws and regulations. Second Party shall carry out the service in under the supervision of employees of First Party.
5. That the services to be provided by the Second Party are detailed in this agreement. However it is expressly understood between the parties that scope of work is only indicative of the services to be provided by Second Party and not an exhaustive list of the services to be provided by Second Party and the First Party will be entitled to add more service in the scope of work.
6. That Second Party undertakes to fulfill all the formalities and requirements of Government of India, Ministry of Environment and Forest and CPCB and other authorities.
7. That the Second Party will be responsible for collection of used oil at price indicated against each item hereunder.

THAT THE SCOPE OF WORK WILL BE AS UNDER:

1. That used oil will be sold to second party under the supervision of representative of First Party.
2. That the representative of the First Party shall observe the loading of the vehicle when used oil is taken from the Second Party. In Such case Second Party representative will accompany the truck during the time it is lifted from the sites.
3. That the clearance of the paper such as material gate pass / invoice copy & E-way bill etc. will be provided by the First Party.
4. That at the disposal site, waste will be stored as per the categorization and adequately segregated. All precautions shall be taken to avoid spillage of any kind and leaching to the soil. The Second Party shall ensure that the people handling hazardous waste have adequate training and knowledge of type of hazardous waste being handled.



5. The Second Party shall ensure that the vehicle for transportation of hazardous is in perfect condition and the driver has valid driving license and other permission and necessary papers. If any of the transport is approved by State Pollution Control Board is there, then vehicle will be arranged from the transporting agency only.
6. That the Second Party will ensure that before loading all hazardous waste containers are labeled (as per form-8 of the rule).
7. That If any material is found to be taken out by Second Party except permitted than First Party have the sole right to cancel the agreement with immediate effect. The case will be handed over to First Party's Legal Staff for future action.

THAT THE SECOND PARTY UNDERTAKES AS UNDER:

1. That the Second Party represents that they have the specialization to handle Hazardous Waste, used oil and permission under Applicable Rule i.e. Hazardous Waste (Management and Handling) Rules 1989 Amended 2016.
2. That the Second Party will ensure that the hazardous waste will be Loaded stored and copy of TERM card (as per Form-9 of the above mentioned Rule) be given. In case of any doubt, concern First Party's Officials may be asked for the clarification.
3. That the Second Party will produce consent from respective State Pollution Control Board (Form -2) and the approval of the disposal site from Ministry of Environment & Forest.
4. That the First Party will receive the 7 copies of manifest from the Second Party as per from 10 of the above mentioned rule.
 - Copy 1 (White) To be forwarded by the sender to the State Pollution Control Board after signing all the seven copies.
 - Copy 2 (Yellow) To be retained by the sender after taking signature on it from the transporter and the rest of the five signed copies to be carried by the transporter.
 - Copy 3 (Pink) To be retained by the receiver (actual user or treatment storage and disposal facility operator) after receiving the waste and the remaining four copies are to be duly signed by the receiver.
 - Copy 4 (Orange) To be handed over to the transporter by the receiver after accepting waste.
 - Copy 5 (Green) To be sent by the receiver to the State Pollution Control Board.
 - Copy 6 (Blue) To be sent by the receiver to the sender.
 - Copy 7 (Grey) To be sent by the receiver to the State Pollution Control Board of the sender in case the sender is in another State.



5. That the Second Party undertakes to indemnify and keep indemnified the First Party in case of any misuse, mishandling, pilferage or spillover of the hazardous waste by the Second Party, its employee, agents and / or any authorized person thereof resulting in any penalty, liability and damages under any rule, regulation, Acts, Notification imposed by the authority concerned.

THAT THE PAYMENTS TERMS WILL BE AS UNDER:

1. The respective rates for used oil, payable by Second Party shall be as follows:-

S. No	Description	UOM	Unit rates
1	Used oil (Without Water and Sludge fill up to top of 220 Ltr)	With Drum	5000/- Inclusive GST

- a. All taxes GST & Tcs, is inclusive.
- b. All Payments to be made in advance through Cheque/ NEFT Deposit after Order.
- c. The transportation and any other cost required for used oil collection will be borne by Second Party.

THAT THE DURATION OF AGREEMENT WILL BE AS UNDER:

- This agreement shall be affective for a period of One year and commenced from July 1, 2020 to June 30, 2020.

M/s KEC-CCECC JV 	M/s IFP Petro Products Pvt Ltd 
<u>PARTICULARS OF SIGNATORY</u> Mr. Gautam Mallick Auth. Signatory	<u>PARTICULARS OF SIGNATORY</u> Mr. Kishore Kumar Auth. Signatory

Synergy
Waste Management (P) Ltd.



Synergy Waste Management (P) Ltd.

info@synergyworld.co.in, www.synergyworld.co.in

Tel. : 011- 27933371, 27933381, 27933382

CIN No. : U74999DL2005PTC283340

Annexure-2

PAY VIA CHEQUE/NEFT
CASH NOT ACCEPTED

GZB-51

RENEWAL OF AGREEMENT



That the previous agreement executed on 01 Apr.2019, is renewed on 01 Apr.2020 and shall be valid only when endorsed through a SEAL of Synergy Waste Management (P) Ltd.

BETWEEN

M/s. Synergy Waste Management P. Ltd., having its Registered Office at 517-518, 5th Floor, D-Mall, Rohini West, New Delhi – 110085 and workplace at :

Subharati Medical College Campus, Subharati Puram, Meerut

AND

Vasundhara Hospital, GZB

Address : 15/NH-1, Near Atal Chowk, Vasundhara, Ghaziabad, Uttar Pradesh 201012

Represented By -

Dr./Mr./Ms. DR. GIRISH RASTOGI, Designation Medical Superintendent Contact No ; 9818320545, Email ID : hospitalvasundhara@gmail.com. The terms & conditions of the existing agreement shall remain unchanged as mentioned in the initial agreement, except the service charges which shall be Rs. 4235.0 (RS.FOUR THOUSAND TWO HUNDRED THIRTY FIVE ONLY,) per month for Beded Hospital or Rs. NIL per bed per day having a declared bed strength of 50(Fifty), subject to the condition of weight limit of 90.0 kg / month beyond which excess weight shall be charged @Rs. 0.0 per kg. That the above rates are exclusive of GST the same shall be charged extra as per then prevailing rates if becomes applicable.


This agreement shall remain valid for a period of 1 year w.e.f. 01 Apr.2020 to 31 Mar.2021.

That this agreement may be renewed further for the period and terms and conditions as agreed in between both of the parties hereto.

Authorized Signatory – Service Provider



Authorized Signatory – Waste Generator





KEC - CCECC JV



No. KEC-CCECC/ NCRTC/RRTS/PKG-1/80

Date:01.11.19

To,
Chief Project Manager / Ghaziabad
National Capital Region Transport Corporation Ltd.
Khasra No.- 112, Gadi Guldhar,
Delhi - Meerut Road, Ghaziabad
U.P -2010 17

Sub: Package-1 "Construction of elevated viaduct from start of elevated ramp near Sahibabad RRTS Station up to end of Ghaziabad RRTS Station, including all specials spans and two nos. of elevated RRTS Stations viz., Sahibabad and Ghaziabad [excluding Architectural Finishing & Roof structure of Stations] of Delhi – Meerut Regional Rapid Transit System (RRTS) Corridor.;

Regarding Submission of Hospital Tie-up for RRTS Package-1 Project

Ref: : 1) LOA No : DM/CN/COR-OF/049 Date : 08.08.2019.

Dear Sir,

With reference to Condition of Contract on Safety, Health and Environment, Clause No. 15.4 we are submitting the hospital tie-up, the details as per below

1) Vasundhara Multi-Specialty Hospital

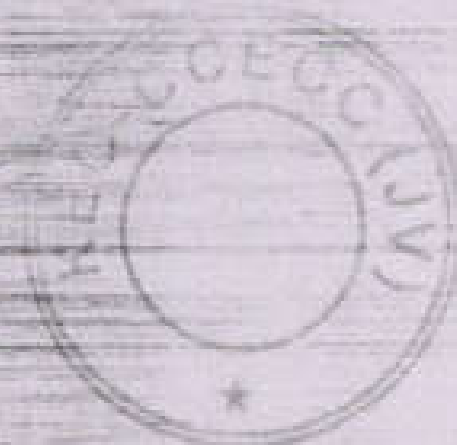
Address : 15/NH-1, Near Atal Chowk, Vasundhara-Ghaziabad, Uttar Pradesh
Ph-0120-2228402, 2284027, 4088019 & 4164219

2) Sushila Multi-Specialty Hospital

Address : A-43, Patel Nagar -II, Ghaziabad, Uttar Pradesh
Ph-0120-6586111, 4375421.

This is for your kind information please

Thanking you,



Yours Sincerely,
For and on behalf of "KEC-CCECC-JV"

(Signature)
(S.R. Patil) 1/11/2019
Authorized Signatory

Encl: As Above



KEC - CCECC JV



No. KEC-CCECC/ NCRTC/RRTS/PKG-1/SHE/002

Dated: 04.10.2019

To,

Vasundhara Hospital
15/NH-1, Near - Atal Chowk
Vasundhara, Ghaziabad.

Sub : Package-1 "Construction of elevated viaduct from start of elevated ramp near Sahibabad RRTS Station up to end of Ghaziabad RRTS Station, including all special spans and two nos. of elevated RRTS Stations viz., Sahibabad and Ghaziabad [excluding Architectural Finishing & Roof structure of Stations] of Delhi - Meerut Regional Rapid Transit System (RRTS) Corridor. Tie up For Ambulance, Emergency Medical Management Facilities, Medical Treatment and Bio Medical Waste.

Ref: 1) LOA No: 1DM/CN/COR-OF/049 Date: 08.08.2019

Dear Sir,

We are pleased to inform you that we are working for the national important project and have been awarded with the above said contract by NCRTC from Sahibabad to Ghaziabad section; our staff and workers are working on above mentioned stretch in day and night shifts.

Your esteemed hospital is adjacent to our working zone; hence we would like to tie up with your hospital for providing emergency medical management facilities to ensure good health & medical treatment to our staff and workers.

We request you to draw a tie up letter and accept all normal and medico legal cases from KEC-CCECC-JV.

Thanking you,

Yours Sincerely,

For and on behalf of "KEC-CCECC-JV"

9-10-19
Dr. GIRJESH RUSTAGI
CONSULTANT PHYSICIAN & CARDIOLOGIST
M.B.B.S., MD (Medicine), AIIMS
Reg. No. 7526

04/10/2019
(Shashikant Rangarao Patil)

Authorized Signatory




BHARAT OIL & WASTE MANAGEMENT LTD.

(BOWML)

www.bharatoil.com

Passionately Protecting Mother-Nature Since 1978

MEMBERSHIP CERTIFICATE

M / s. APCO Infratech Private Limited

Sector - 8, Vasundhara Ghaziabad-201012, UP

is a registered member of our facility

Gate No. 672. Vill. Kumbhi, Akbarpur Road, NH - 2 Kanpur-Dehat-209101, UP

for safe, legal & scientific Disposal of Hazardous Waste

BOWML/K/3593/19

Member # November 17, 2021

Expires Date : _____

One may verify 'active' membership by calling
Bharat Oil & Waste Management Ltd. at
011-4100 0710, 2981 6466 or Email : sales@bharatoil.com



BOWML/K/3593/19



Scan & Verify

For Bharat Oil & Waste Management Ltd.

Project Manager	Signature Signed By Project Manager
System Coordinator	Date: 2020-12-09 14:38:22
Approved By	IP: 102.155.146.230
	IP: 102.155.146.230
	IP: 102.155.146.230

Authorized Signatory



For Bharat Oil & Waste Management Ltd.

Project Manager	Signature Signed By Project Manager
System Coordinator	Date: 2020-12-09 14:38:22
Approved By	IP: 102.155.146.230
	IP: 102.155.146.230
	IP: 102.155.146.230

Authorized Signatory



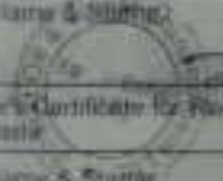
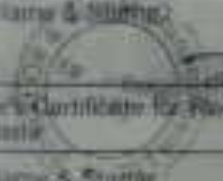


*Membership is subject to the terms & conditions of agreement & may be terminated by BOWML, upon non-payment of dues / payment.

Copy for SP4

FORM 10
(See rule 13 (1))

MANIFEST FOR HAZARDOUS AND OTHER WASTE **S.No.: 34490**

1. Consignor's Name & Mailing Address (including Phone No. and email)	RICO INFRA TECH PVT. LTD. RATS PKG-2 SECTOR-8 VASUNDHARA CASTING YARD GHAZIABAD, U.P.								
2. Consignor's Authorization No.									
3. Manifest Document No.	CHALAKHATA 18009 01-01-2019								
4. Transporter's Name & Address (including Phone No. and email)									
5. Type of Vehicle	[Truck / Tanker] <i>Special Vehicle</i>								
6. Transporter's Registration	<i>Partly own vehicle</i>								
7. Vehicle Registration No.	UP-14 RT 8624								
8. Receiver's Name & Mailing Address (including Phone No. and email)									
(iii) BHARAT OIL & WASTE MANAGEMENT LTD. Mansa Mukimpur, Roohi-Lakshmi Road, Roohi - 247684, U.P. Tel: 05874307884 e-mail: sales@bharatol.com	(iv) BHARAT OIL & WASTE MANAGEMENT LTD. Plot B 672, Sikandra Road, NH-2, Kurichi Village, Tehsil Amroha, Kanpur District, U.P. Tel: 0512-3195288 e-mail: sales@bharatol.com								
9. Receiver's Authorization No.	(ii) HAZARDOUS WASTE MANAGEMENT & DISPOSAL UNIT, Kanpur, U.P. Tel: 0512-3195288								
(ii) HAZARDOUS WASTE MANAGEMENT & DISPOSAL UNIT, Kanpur, U.P. Tel: 0512-3195288	(iii) HAZARDOUS WASTE MANAGEMENT & DISPOSAL UNIT, Kanpur, U.P. Tel: 0512-3195288								
10. Waste Description	<i>Waste oil + used oil / kg</i>								
11. Total Quantity No. of Containers	<i>1277.4 kg + 83.4 kg</i> MT or MT Nos.								
12. Physical Form	(Solid/Semi-Solid/Sludge/Crystalline/Liquid)								
13. Special Handling Instructions & Additional information	Do not throw Drums from truck, in case of leakage, snage, use Washing soap at point of leak to stop its leakage								
SENDER'S CERTIFICATE									
Typed Name & Stamp: 		I hereby declare that the contents of the consignment are fully and accurately described above in proper shipping name and are categorized packed, marked and labeled, and are in all respects in proper condition for transport by road in accordance with applicable national and international regulations.							
		<table border="1"> <tr> <th>Month</th> <th>Day</th> <th>Year</th> </tr> <tr> <td>19</td> <td>31</td> <td>2019</td> </tr> </table>		Month	Day	Year	19	31	2019
Month	Day	Year							
19	31	2019							
5. Transporter Acknowledgement of Receipt of Waste		<table border="1"> <tr> <th>Month</th> <th>Day</th> <th>Year</th> </tr> <tr> <td>12</td> <td>31</td> <td>2019</td> </tr> </table>		Month	Day	Year	12	31	2019
Month	Day	Year							
12	31	2019							
Typed Name & Stamp: 									
6. Receiver's Certificate for Receipt of Hazardous and other Waste		<table border="1"> <tr> <th>Month</th> <th>Day</th> <th>Year</th> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>		Month	Day	Year			
Month	Day	Year							
Typed Name & Stamp: 									



VINAYAK MULTISPECIALITY HOSPITAL & TRAUMA CENTER

Near Guldhar NH-58, Delhi Meerut Road, Ghaziabad-201002 | Email : vinayakmhtc@gmail.com | Mob : 9711785968

Ref No: VMHTC/102/19

Date: 19 september 2019

Subject: Regarding tie-up of Bio-Medical waste in our Hospital.

To

APCO-CRFG (JV)

A joint venture for execution of NCRTC's

Regional rapid transit system Corridor (RRTS) Package-II

Arya nager (Duhai)

This is bring your kind attention regarding medical waste tieup of our Hospital.

(Vinayak Multispeciality Hospital & Trauma)

Near Guldhar NH-58, Delhi meerut road

Dr. Kuldeep Choudhary

(Medical Superitendent)

Dr. KULDEEP CHOUDHARY

(M.D.)

Medical Superintendent
Vinayak Multispeciality Hospital
& Trauma Center

SHRUTI PETROCHEM INDUSTRIES

Regd. with Ministry of Env. & Forests / CPCB Govt. of India, New Delhi as recycle & re-processor

Petroleum Refining, Hazardous, Used Waste Oil

Plot No. 41/10/1-8, Village Lohar Heri Tehsil Bahadurgarh, Distt. Jhajjar (HR)

E-mail : shrutipetrochem2013@gmail.com

Ref. No.

Dated 3/10/2020**MEMORANDUM of UNDERSTANDING**

This Memorandum undertaking is made on 01/10/2020

Between

M/s SHRUTI PETROCHEM INDUSTRIES Address PLOT NO. 41/10/1-8, VILLAGE LOHAR HERI TEHSIL BAHADURGARH, DISTT JHAJJAR-HR herein after referred to as purchaser (used waste oil) which expression unless repugnant to the context or meaning there of be deemed to mean and include it's successors assign of M/s SHRUTI PETROCHEM INDUSTRIES.

AND

LARSEN & TOUBRO Construction, Heavy Civil IC, RRTS P3 LOT 2 Project, Sector-4C, MDA Land, Shatabdi Nagar, Meerut- 250003, Uttar Pradesh, which expression unless repugnant to the context or meaning there of be deemed to mean and include it's successors assign of LARSEN & TOUBRO Construction, Heavy Civil IC.

Whereas, LARSEN & TOUBRO Construction, Heavy Civil IC has approached M/s SHRUTI PETROCHEM INDUSTRIES for the collection and disposal of waste oil from LARSEN & TOUBRO Construction, Heavy Civil IC.

M/s SHRUTI PETROCHEM INDUSTRIES agree to collect and dispose waste oil from LARSEN & TOUBRO Construction, Heavy Civil IC, RRTS P3 LOT 2 Project Both parties do hereby agree following:

1. This MOU is valid up to 30/09/2021
2. As mutually agreed that M/s SHRUTI PETROCHEM INDUSTRIES will settle the bill for when purchasing the waste oil from us, based on prevailing market rate time to time and LARSEN & TOUBRO Construction, Heavy Civil IC, RRTS P3 LOT 2 Project will pay for taking the waste oil.

The individual signing this MOU on its behalf, who names, appears below.

For M/s LARSEN & TOUBRO

For M/S SHRUTI PETROCHEM INDUSTRIES

For Shruti Petrochem Industries

Authorized Signatory

Authorized Signatory
Auth. Signatory



Larsen & Toubro Limited
L&T Construction
Heavy Civil Infrastructure
Newer AnnaSalai Road, Manipalakkam
P. O. No. 579, Chennai - 600 069, India

CIN: L99300MH1946PTC004768
GST: 09AAAC10140P4718

Ref. No: L&T/RICTS-P3L2/COMMON/

Date: 26/11/2020

To,

Synergy Waste Management (P) Ltd.

Subharti Medical College

Subharti Puram

Meerut

Tel. 011-27933371, 27933381, 27933382, 26933371

Ref. No. : Your Quotation dtd. Nov 09th, Nov 11th 2020 and our discussions on 24th and today

Subject : Terms & Conditions regarding your providing bio-medical waste disposal services at our L&T site

Dear Sir,

With reference to the discussion had with you today, we summarize herewith the terms and conditions for your providing "Bio Medical Waste Management Services" at our First-Aid room at Larsen & Toubro Ltd., Sector 4 C, Village Rithari, Shatabdi Nagar, Dist. Meerut.

The following terms and conditions will come into force from 26th November 2020 and shall be valid for a period of one year i.e. until 26th November 2021 and thereafter renewed based on mutual agreement until completion of our project 'DM/CN/COR-OP059, LOT-P3L2 - Construction of elevated viaduct from start of ModiNagar North station to Shatabdi Nagar station and 5 elevated stations viz. ModiNagar North, Meerut South, Patpur, Rithari & Shatabdi Nagar of Delhi-Ghaziabad - Meerut RRTS corridor.

- 1) Your firm should be registered in CP Pollution Control Board
- 2) Your Service charges for collection, transportation, treatment and disposal of bio-medical waste shall be Rs.2,200/- per month subject to weight limit of 30 kg per month. For additional weight (over 30 kg per month) of bio-medical waste your service charges shall be @ Rs.30/- per kg. As and when bio-medical waste is generated at our site irrespective of size of quantity, the same shall be intimated to you for immediate collection, transportation, treatment and disposal.
- 3) You shall provide polybags as required (15 each Red & Yellow small size) without any extra cost to us.
- 4) Cost towards disinfectant & other consumables required for the waste management shall be borne by us.





LARSEN & TOUBRO

Larsen & Toubro Limited
JNT Construction
Heavy Civil Infrastructure
Mount Parnamafee Road, Madanpalle
P. O. No. 979, Chennai - 600 069, India

- 5) GST : Presently, Nil. If Govt levies in future, the same shall be extra charges as applicable.
- 6) One time registration fee Rs.1.000/-
- 7) Security Deposit : Nil
- 8) Payment Terms : Within 15 days after your execution of work and receipt and acceptance of your bill.

Payments through RTGS / NEFT (based on your furnishing proper bank details)

Deductions : Income Tax as applicable will be deducted from the bills as per statutory rules. TDS certificate shall be issued after completion of the financial year.

Kindly acknowledge the receipt of this letter as token of your acceptance.

Yours faithfully,

For and on behalf of

LARSEN & TOUBRO LIMITED

Sanjay Singh Gangwar
Project Manager
RRTS- P3L2
Heavy Civil Infrastructure IC



Synergy Waste Management (P) Ltd.

(Received & accepted L&T's terms & conditions)